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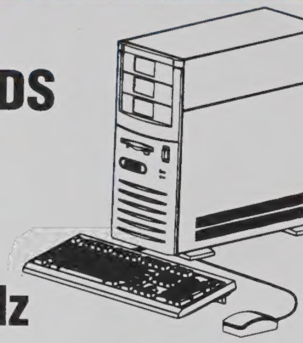

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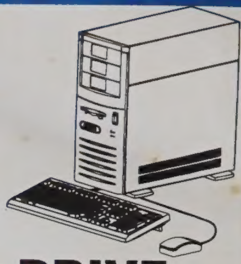

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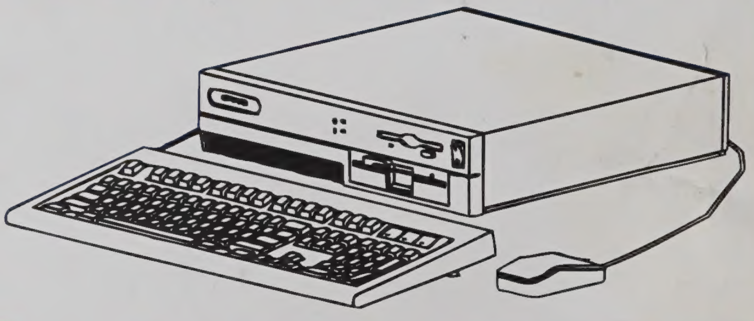

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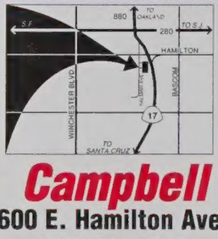

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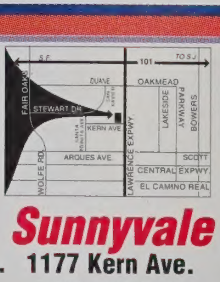

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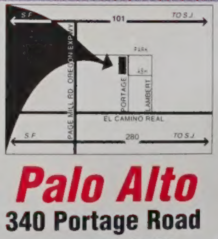

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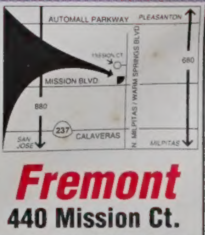

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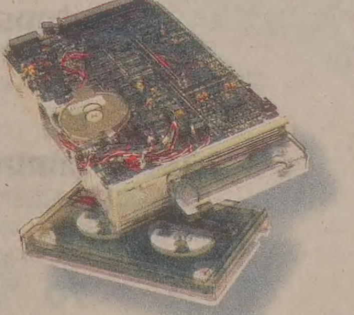

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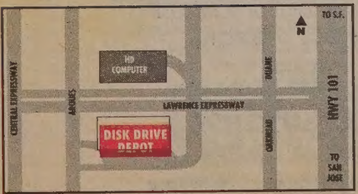
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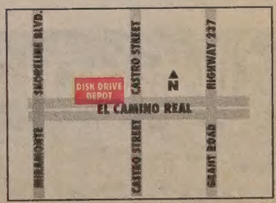
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January 1, 1996 • Issue #146

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The End Of The World As We Know It?

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The 1995 MicroTimes 100

Changes reminiscent of post-Soviet Eastern Europe swept through the personal computer industry last year, as entire companies vanished (often devoured by other companies), new ones were born, old ones reinvented themselves, and the Internet had just about everybody in an uproar.

We're pleased to present the 1995 list of fine folks, from conspicuous overachievers like Bill Gates to some worthy souls who accomplish great things in relative obscurity.

And we'd especially like to thank our readers who sent us many excellent nominations, without which we would have missed some great people.

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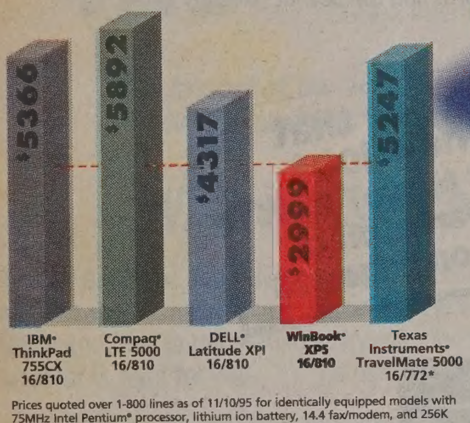

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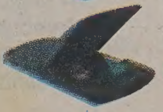

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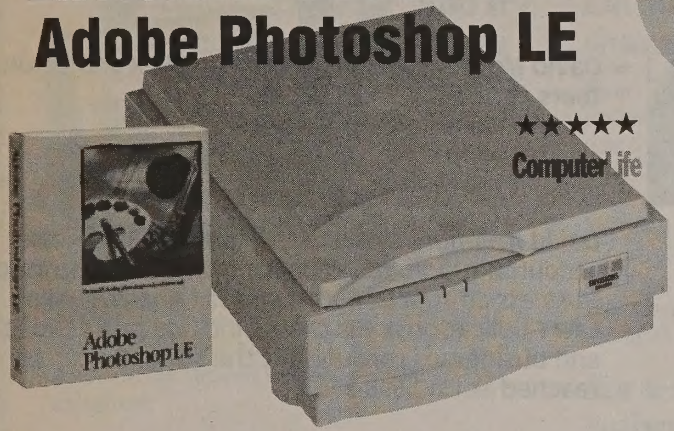

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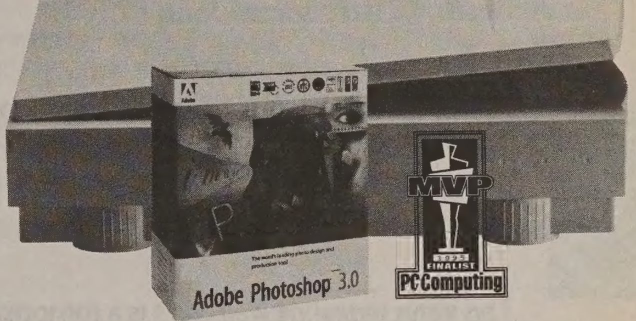

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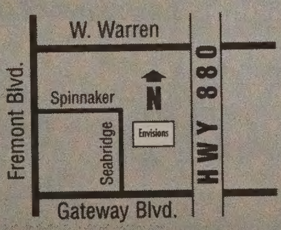

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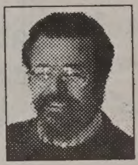

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Mitsu Hadeishi (mitsu@openmind.com) is the owner of Open Mind Systems in Ashland, Oregon.

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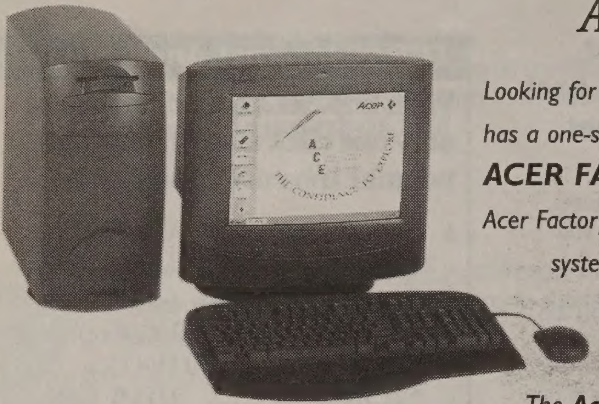

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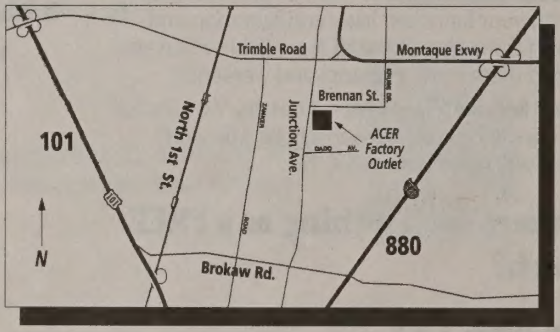

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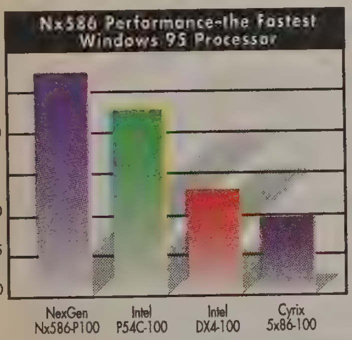

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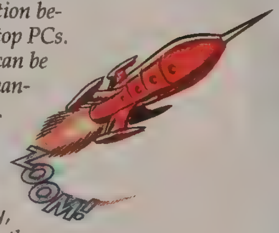

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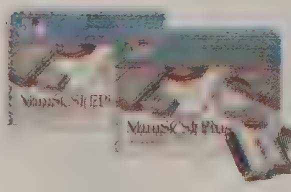

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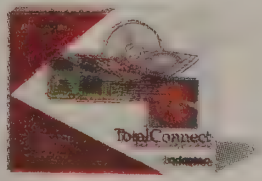
Desktop Upgrades



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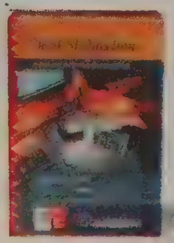

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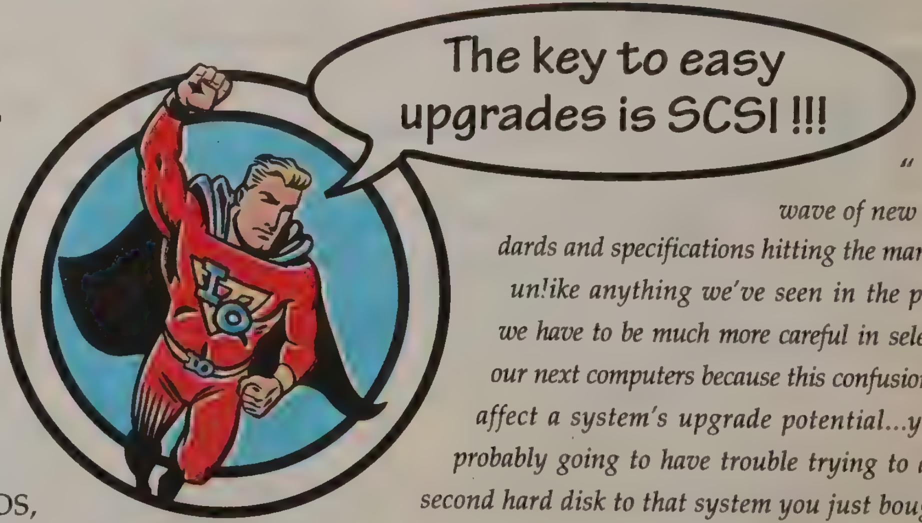
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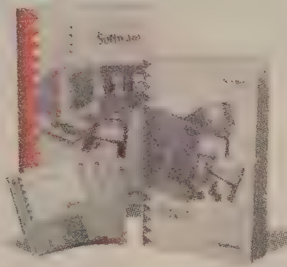

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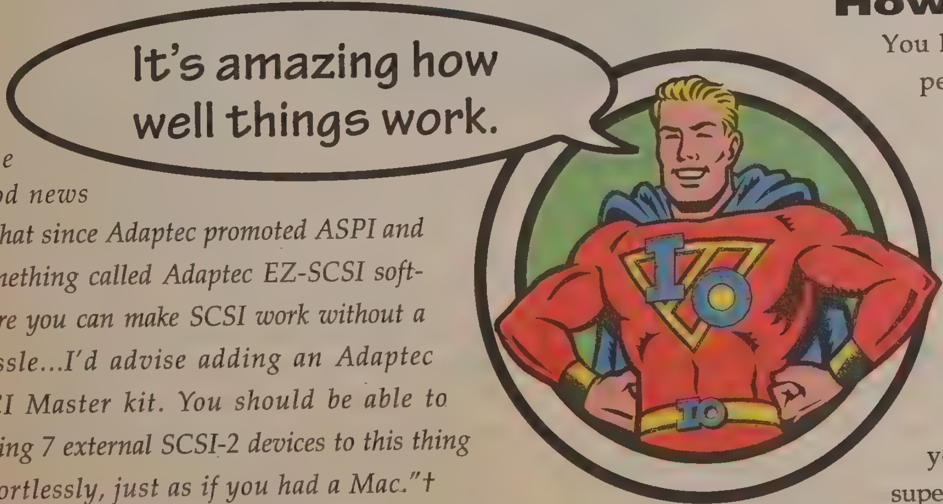
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July 1995 PC Magazine

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BY PAUL HOFFMAN

Industry Insights

Multimedia-Capable Hardware Getting Much Cheaper This Year

By the time Christmas rolls around again, new PCs should be able to handle the oft-hyped multimedia significantly better than the PCs many of you just bought, and for not much more money. A spate of different, low-cost hardware solutions for making multimedia a reality will be rolled out this year, possibly bringing at least a small amount of the oft-promised high-quality video and sound capabilities to the masses.

Because this is the PC business, however, there won't be just one solution, and we will still be relying on software vendors to take advantage of some of the new hardware in order to get any benefit from it. Fortunately, Microsoft has helped out by giving multimedia authors a standardized way of calling hardware: this in turn gives the hardware vendor a centralized place to base the acceleration.

In the past few years, we've already seen many add-on graphics accelerators supposedly aimed at the multimedia market. Some of these have worked great, but many of the chip vendors have failed to create software drivers that produced the hoped-for results. The new chips this year take a very different approach to the problem. In fact, some of the most promising solutions will be built right into the next generation of CPUs that should be in systems hitting the shelves in six to twelve months.

Faster Brains

At the recent Microprocessor Forum (the PC chip industry's favorite place to announce new chip and technical details about recent products), Cyrix announced that some of its new Intel-compatible CPUs will come with built-in multimedia acceleration. By moving some of the most common instructions used in multimedia applications right onto the CPU, they allow the instructions to execute many times faster. This is particularly true for any operations that refresh the screen a great deal, like video.

It is likely that Intel might add similar capabilities to some of its Pentium chips, but it has yet to publicly state any concrete plans in this area.

Cyrix's solution has many parts, but the most interesting are those that make cheap DRAM work as fast as, or faster than, high-speed cache RAM. This not only speeds up screen refreshes, it reduces the cost of a system by letting it use cheaper RAM. Further, Cyrix says that most of today's multimedia software will get benefits from their new CPUs, although software written with a few special routines will run even faster.

> Cyrix's solution has many parts, but the most interesting are those that make cheap RAM work as fast or faster than high-speed cache RAM.

A Different Kind Of Acceleration

This year's crop of acceleration chips will also be quite different from their predecessors. Instead of just making certain kinds of drawing on the screen go faster, new chips from small, little-known startups will radically change the way that multimedia gets displayed. One of the chips, the Mpact chip from Chromatic, is an add-on processor that can be placed on the motherboard or a separate card. The other, the MediaProcessor from MicroUnity, can be used either as an add-on chip or as a CPU unto itself. Both boast incredibly high speeds for media-specific tasks.

Chromatic's design is specific to PCI-based systems, and includes the ability to decode MPEG-1 and MPEG-2 movies. At the same time, it can act as a 28.8K baud modem, act as a videophone or speakerphone, and give you great 3-D graphics. It is expected that the chip, plus the needed RAM, will add only $150 to the cost of a computer, but allow much more power than today's accelerators that cost over $500. Further, you don't need a high-end Pentium box to get good multimedia results: the chip requires very little of the CPU's processing power to do its work.

MicroUnity's MediaProcessor is even more radical. It's a very specialized RISC CPU that is designed to handle broadband digital communications and not much else. Given that we may all be getting our multimedia entertainment over our cable systems before the end of the century, this design makes a great deal of sense and is a revolutionary departure from trying to create add-in cards for PCs to handle such high-speed information. If the design catches on, the company already has plans for how to shrink the chip and its power needs to easily fit inside a hand-held computer, television, or other small appliance.

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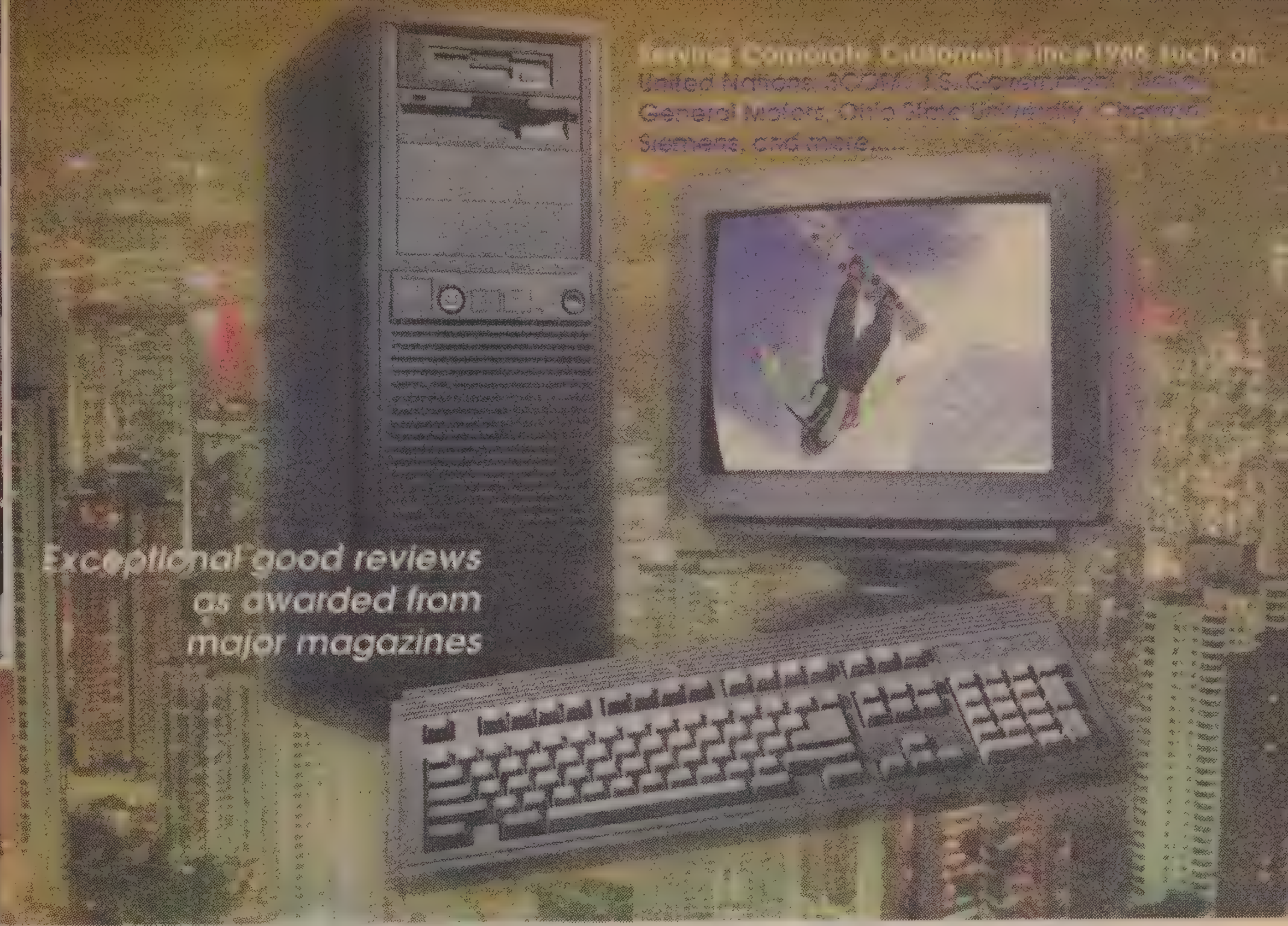
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The Lure Of New Toys

So far, all of these multimedia improvements are for PCs. Apple, as always, is promising better technology and operating system extensions, but they are very slow to materialize.

But if you're the kind of person who can't resist the slickest new multimedia system on the market, you may find yourself buying something that isn't a PC and isn't a Mac.

The BeBox, the first product of the very secretive Be, Inc., is now available for developers, and will soon be released for the public. It is a multiprocessing system running on PowerPC CPUs using a completely new operating system optimized for running on more than one processor. The result is a box that can run multimedia (particularly video) at quite impressive rates without costing a fortune.

> Can a new hardware and operating system design "make it" in the PC market? Probably.

Can a new hardware and operating system design "make it" in the PC market? Probably, if the company takes it slow and doesn't over-hype the system. So far, they've done both admirably well. Almost no one had heard of the BeBox before Be's president, ex-Apple exec Jean-Louis Gassee announced it a few months ago.

Be is not making the BeBox out to be the next mainstream system. They're aiming it at the high end of the hobby and video market, where people are willing to take a risk for a perceived reward and freedom from the mundane computers and software they use today. Does this remind you of the Mac in 1984?

The BeBox has some other aspects that will greatly increase its chances of survival. It comes as a box with a motherboard: to add the monitor, RAM, keyboard, and hard drive, you go to your favorite PC dealer and buy standard PC parts. This alone should make it easier for Be to survive, since they have almost no expensive commodity items to warehouse and try to price against the cutthroat PC market.

Be is offering more than just a new platform, however. The box is outfitted with plenty of hardware ports on the back for expansion, and the next great video device will probably go into it. Most of the ports are standard; however, they added a very high-speed custom port (dubbed the "GeekPort") that will make it attractive to small peripheral vendors looking to catch the fancy of computer hobbyists.

But Will The Content Follow?

Even with all these new possibilities this year, the other side of the market is still spinning its wheels.

Let's be honest: multimedia titles have stagnated. You've got your action games, you've got a few encyclopedias and art collections, and a few fun music CDs with some graphic content, but none of these are that compelling. The fact that most people have put multimedia aside and are fascinated by the Internet should have the CD-ROM content providers very worried.

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Insights *continued...*

For better or worse, people seem to want intimate and interactive, even if it is tawdry and lurid. The media event of 1995, the OJ Simpson trial, was about media, not justice. If you don't believe this, think for a moment about who it was that took what was pretty much a class issue (access to good lawyers) and turned it into a race issue. More people in the US could name a lowly assistant prosecutor than could name a single leader in the Bosnian bloodbath because the trial pushed Bosnia off the screen and the front page. How is yet another CD-ROM going to compete with that kind of draw (or whatever becomes the media theme this year)?

The Internet was able to absorb some of this popular culture with online reports of the trial and interviews with rock stars online, but reality reared its ugly head when you realized that it was all just 10-point Courier type coming to you from an overloaded mainframe. The interactive part let you state your truth to all others online, but it forced you to have to read everyone else's responses. In reflection, having the information spoon-fed to you by the increasingly slick media was less of a hassle and much more visually pleasing.

> The fact that most people have put multimedia aside and are fascinated by the Internet should have the CD-ROM content providers very worried.

Of course, this might all change when our cables hook into the backs of our PCs as easily as they do into the backs of our VCRs. Or, to view it another way, it might seem more fun when our PCs are just another box next to the TV, being fed by the same firehose of images. For now, 28.8K baud and jerky CD-ROM access is supposed to seem fast.

Can someone come up with new and interesting multimedia content? Of course. A few years ago, who would have thought that Court TV could be a hit? Twenty years ago, who would have thought that game shows would be more popular evening fare than news? This is not to say that the multimedia market is about to die unless they come up with half a dozen new genres: you don't see TV sitcom makers going out of business, even if they're just as dumb as they were twenty years ago.

But multimedia PCs are in a very different market than TV. If you're bored with your current content and want to try a new game, you have to pay well over $20, and often over $40, for the risk. The new hardware will make these games more interesting, but probably not so interesting as to double the size of the market. Tie-ins with the Internet (like the new Monopoly CD-ROM) have a good chance of getting some folks interested, but without compelling content, few new people will be willing to pay the entry fees to get into the market. ■

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Stock Chart continued on page 200

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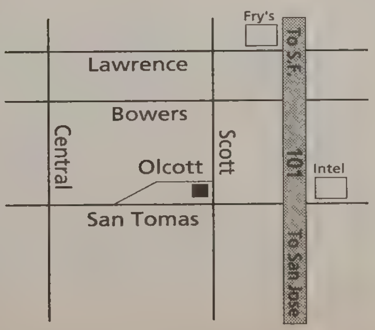

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REALIZABLE FANTASIES • BY JIM WARREN

It's Time For Online Debates By Prexy Candidates

A Batch Of Politicians Say They Want To Lead Us Into The 21st Century. Let 'Em Prove They're Capable Of Doing So.

Let's demand substantive online debates during the remainder of the primary season—plus online debates during the general election season prior to November.

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Substantive Debates!

I'm not talking about fru-fru momentary posturing in front of a keyboard as a photo op. I'm not talking about pretend online debates where some candidate hunts-'n'-pecks their way through a coupla trivial comments.

The candidates never need to get near a keyboard—and probably shouldn't (details below).

I'm proposing extensive candidate faceless face-offs—where only the candidates are questioning and answering one another. Or they could be debates where a panel of questioners—acceptable to the candidates—pose questions and the candidates respond.

No more rumors about what was said. No more sound bites with news anchors telling us what they decide we need to know. No more too-brief quotes out of context. And more detailed, ancillary statements, policy papers, etc., can also be referenced—archived at candidates' Web and ftp sites for easy access and review.

The full text of the debates can (will!) be online, for everyone to retrieve from anywhere, anytime, and review, analyze, quote, and cite.

Anywhere, anytime!

Front-runners and content-free political hacks claim "schedule conflicts" to avoid facing their opponents. But participants in online debates can question and comment from different places, at different times, consuming only a few minutes per day. For those candidates who agree to a panel of questioners, the panel members also have no schedule conflicts—they can question from anywhere, anytime, via a few keystrokes.

Candidates can consult their advisors before responding. For that matter, just like with most presidential speeches, they can delegate responsibility to their speech writers—and delegate drafting questions to their opposition researchers and campaign managers. The only requirement would be that the postings in the online debates be identified as being from the candidates themselves—just as they often mouth the words drafted by their trusted speech writers and espouse policies created by their advisors.

After all, we hope presidents consult advisors and delegate responsibilities—and choose competent aides for such responsibilities. We hope they think before they act. Why should we expect less when they present themselves to us during campaigns?

Additionally, in online debates, coiffure, fashion, and makeup become rather unimportant. Substance of positions and expression become the issue—appropriate for picking the next president of the United States.

Come Some, Or Come All

I assume the front-runners will refuse to participate—probably by ignoring the requests/invitations. (I'll report it, nationwide!) Front-runners almost invariably refuse debates as being politically dangerous, and helpful exposure for their opponents.

Well, to hell with the front-runners.

We don't need the front-runners to create these online prexy debates—especially with the massive field of Republican wannabes who are desperately seeking exposure. Unlike TV, there are no advertisers or news directors demanding that all the attention-getters participate.

All we need to get this underway is two or three of the nationally recognized candidates who are willing to risk massive exposure in this potent new medium. (And the ones who aren't willing to risk it aren't worth considering, anyway.)

Why will some candidates participate?

1. They will get free nationwide publicity—especially given that the first debate or two will generate widespread print and broadcast news coverage, simply because its uniqueness makes it newsworthy.

2. Most of the candidates do have substantive issues and positions that they would like to publicize—but no means to do so, except for the net. Most already have Web sites. But these are only open to the 5% to 10% of net users who have Web access, and who want to spend their time ferreting out and visiting politicians' lairs.

3. They can show that they want to be a part of the future—and illustrate that they understand that the net is a crucial component.

As each candidate agrees to participate, it becomes more difficult for the foot-draggers to remain disconnected. Especially after the first debate brings national publicity to the participants—and to the absence of obsolete "leaders."

How To Do It

As of press deadline, I'm proposing to structure this as several moderated Usenet newsgroups (online discussion forums), plus one or more unmoderated newsgroups.

Some of the advantages of newsgroups:

- They automatically circulate to millions of

continued on page 27

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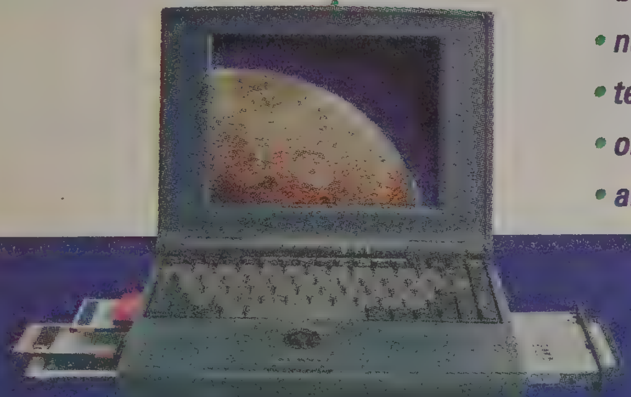
AMD 486



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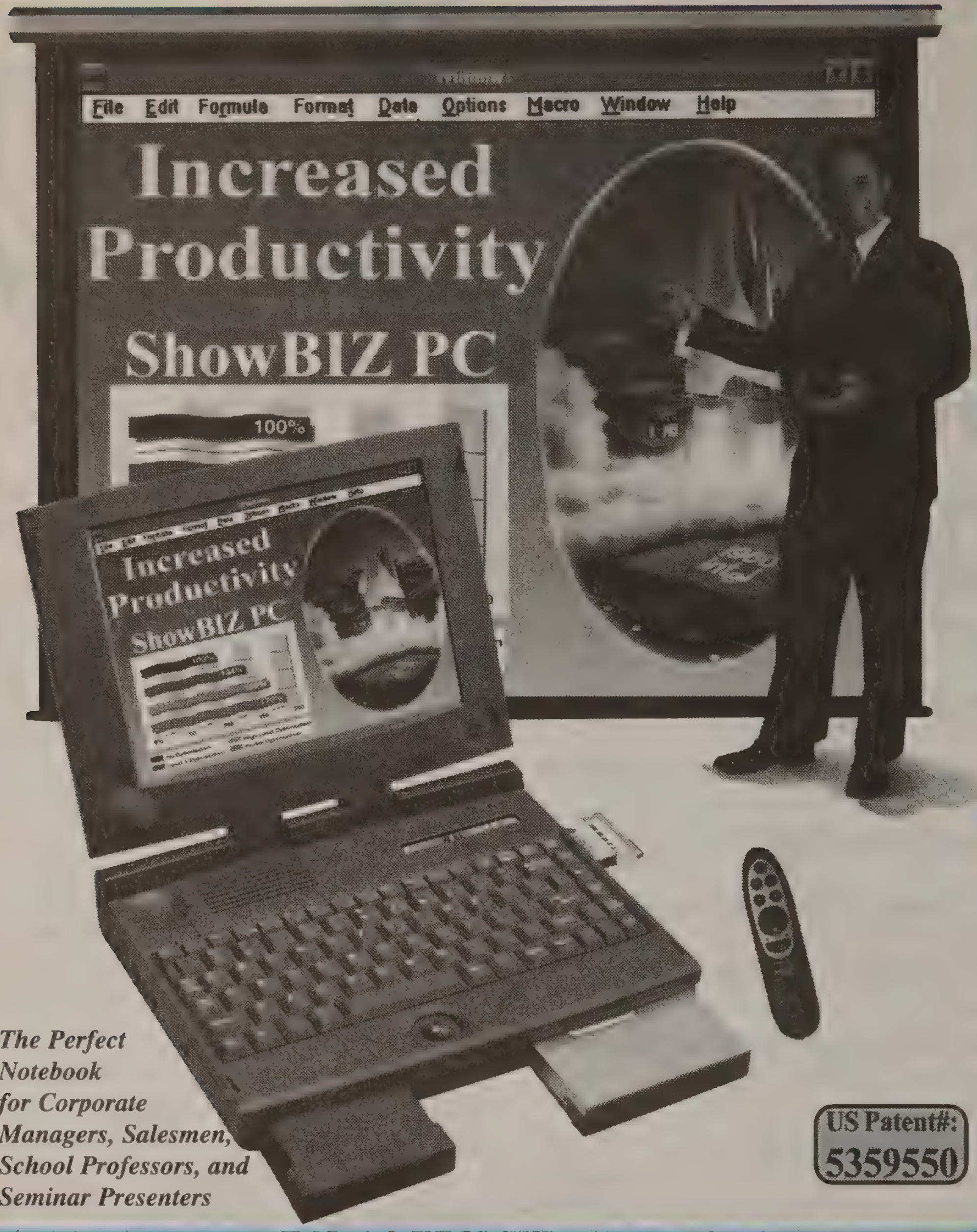
Wedge ShowBIZ, the Presentation Notebook with 6 ft. screen



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- Fred Klemmt, Aptek Associates - Mountain View, CA

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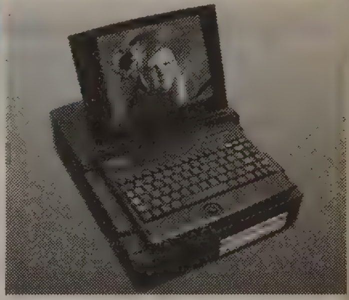

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- Bob Peters, David Advertising - Cleveland, OH

✔ *It's a Projection Panel*

" Thanks to ShowBIZ, I can prepare, create and present my seminars much more effectively. It is great to watch my audience eyebrows rise when they see me projecting a large display interactive live multimedia presentation. They go wild when I display a chart being updated on-the-fly or when an animation comes splashing on the screen with special sound effects. With ShowBIZ, I will always have attention getting presentations..."

- John Halbert, Impact Seminars - Brentwood, TN

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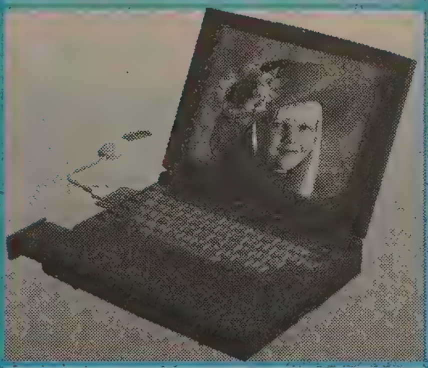

- Multimedia Pentium PCI Notebook
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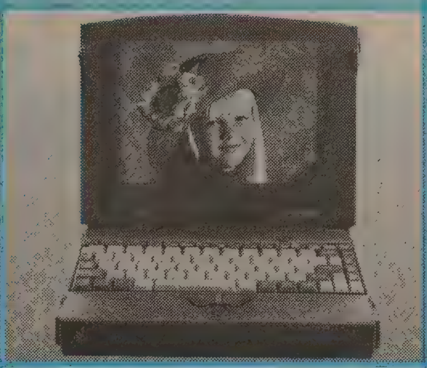

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- **Simultaneous LCD/CRT Display**
- **Removable NiMH Battery**
- **External Floppy Drive**
- **Adjustable typing angle**
- **Carrying Case**
- **One Serial port, One Parallel port**
- **One Keyboard port, One Mouse Port**

While Supply last
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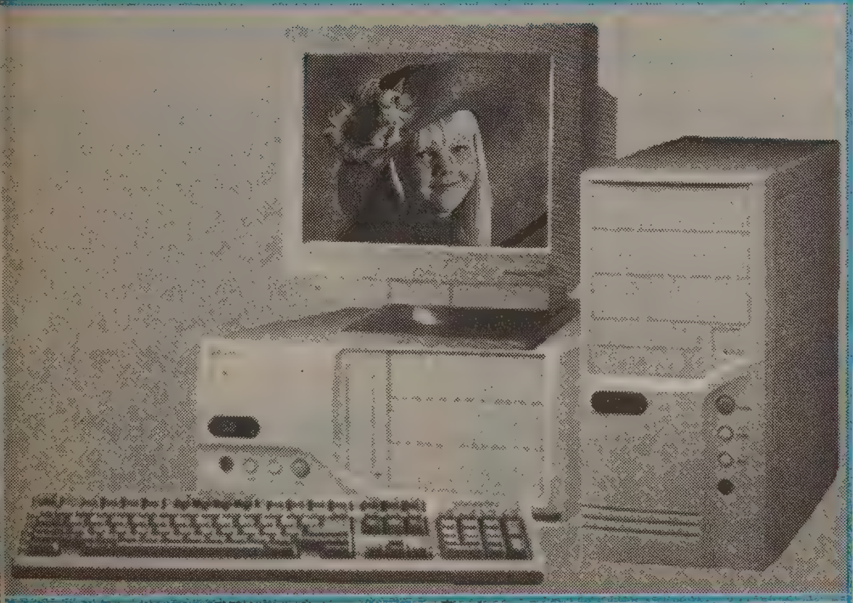
Color: $1,249.00

Windows '95 Workstation



- **486-66MHz 486 DX4 Microprocessor**
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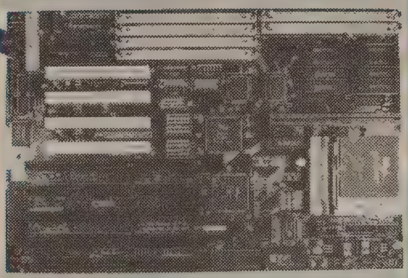

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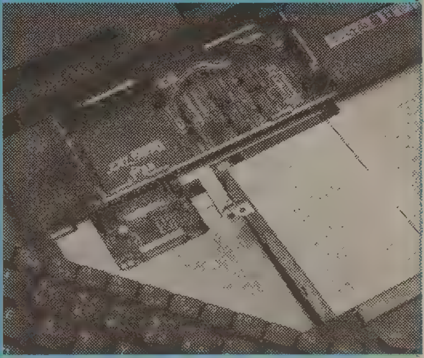

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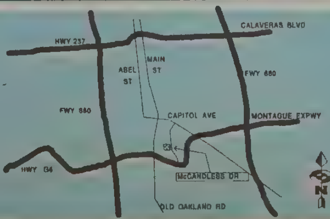

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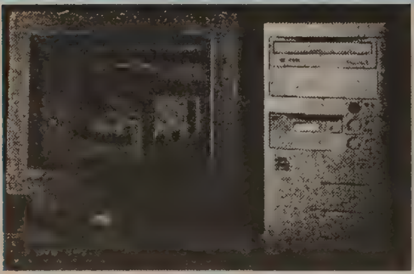

75, 90, 100, 120 & 133MHz

Complete Systems featuring Intel's Pentium Processor

P75 System - $1459
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P133 System - $1959

system's include:

- Mini-Tower Case with 230W PS / Intel Triton chip set
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JH004B	four 30-pin to one 2.1"-high 72-pin	$\$29^{99}$
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JH109B	eight 30-pin to one 3.2"-high 72-pin	$\$49^{99}$
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T versions have SIMM sockets on front side. B versions have SIMM sockets on back side.

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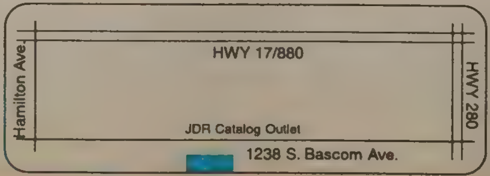

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Fantasies *continued from page 22...*

shared computers.

•Most net users have access to newsgroups—unlike Web sites that require Web access, suck up bandwidth, and often suffer major delays.

•Newsgroups are available via Web browsers for those who have 'em.

(A moderated newsgroup limits who can post to it. Unmoderated newsgroups allow anyone to post anything to them at any time—creating predictable quality and volume.)

The draft proposal: I propose to set up "Prexy" and "Press" moderated forums. Only candidates and questioners on whom they mutually agree (if any), could post to Prexy. A debate would last for, say, two weeks—but require only minutes per day of the participants. Ideally, debates would end about a week before major state primaries (CA?, NY?, FL?, TX?) with the last one ending a week before the November elections.

Each calendar day, each candidate and each questioner (if any) could post only one question, limited to, say, five lines of no more than eighty characters each. To avoid spoofing by net crackers, each candidate's signed posting must be faxed to the moderator, in parallel with emailing the item to be posted to the Prexy debate.

Each day, each candidate could post one answer to, or comment on, each question of the day—explicitly referenced as such—limited to, say, 20 lines x 80 characters/line, plus one comment on each other candidate's responses of the previous day, with the same limits.

Additionally, each candidate could post one reference citation per question or comment posted the previous day, limited to 4 x 80 characters, pointing to online sources of extended comments, related reference materials, policy statements, Web sites, etc.

The limited length makes it palatable to readers and might even keep candidates on topic. The citation option permits them to point to more extensive discussions of their issues, for those interested.

Knowledgeable Critics

Regarding the Press newsgroup: Only, say, one editor or reporter nominated by any newspaper or magazine with, say, 500,000 daily or weekly circulation or more could post to Press, plus, say, two newscasters per national broadcasting network. They could only participate if they agreed to post from email addresses at which they agree to accept email from the public.

Their postings would be limited to, say, 40 x 80 bytes per question and per response/comment by each candidate or questioner, on the previous day. Of course, pressvolks would be free to use their limits to post cogent comments from other reporters, other media, and from astute members of the public—with attribution.

Just like the candidates, Press participants could also post 4 x 80 citations pointing to more extensive information about topics under debate.

All participants in Prexy and Press would agree that all of their postings were therewith placed in the public domain for unlimited use.

Allow Public Comments

I propose to also create an unmoderated newsgroup for unfettered public comment. And I encourage others to create moderated newsgroups to offer higher-quality moderated commentary in parallel with the Prexy debates—ideally including one or several forums for other pressoids, alternative press, think tanks, policy wonks, etc. The more the better.

In the default—because someone has to put their name on proposals to create newsgroups—I am initially naming myself as the moderator for the groups. However, I will be more than happy to hand that off to anyone else that the participating candidates may prefer.

I don't care who gets credit for this; I do care that it happens!

No Room At The Inn

For this proposal, someone is a "candidate"only if their FEC report says they raised more than, say, $10 million. Knowing that I will get royally flamed for it (comes with the territory), I am purposely ignoring the numerous nth-Party candidates—Libertarian, Peace & Freedom, American Independent, Flat Earth, etc.—not because I want to ignore them, but because I want to get results. This year!

Other folks are welcome to organize other online debates that include everyone they can persuade to participate. I'm investing my finite time and limited talents in debates that have a realistic possibility of including the next president of the nation. I want to make online debates standard fare for elections. Now!

Do Same For Other Races

Why don't you organize similar online debates for congressional, state, and local races in which you are interested? Note that you can do it for anywhere, from anywhere—just like activists work wherever they can be effective.

This *is* going to become a standard political practice. Why wait any longer?!

How To Find It

I will post suggestions, improvements, and details of progress in my (free) online GovAccess listserv (send the message, "subscribe GovAccess yourEmailAddr" to *Majordomo@well.com*). (No, I don't have time to distribute details by more obsolete means.)

And as others create similar forums for other races, I will post brief details that they forward, in GovAccess.

How You Can Make This Happen

Copy this column and send it with a one-page letter or fax to each of the candidates, including those you oppose (gives "your" candidate a chance to fry those you dislike). Urge them to participate, at the least for the reasons enumerated above.

Important: Ask for an explicit response that you can circulate to friends, associates, and all over the net (and do so!).

Send other copies to editors, political reporter(s), and newscasters of your local media. Point out how useful it could be for them to have free access to the computerized complete text of all prexy comments in such debates.

Send suggestions for improvements—briefly, please!—to me at *jwarren@well.com* (please do not phone; not enough time). ■

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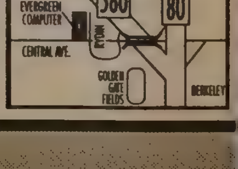

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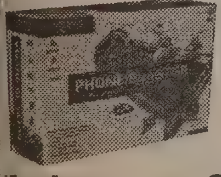

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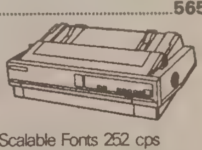

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Letters

Another Vote For Free Wireless

I am a Junior at Homestead High School in Cupertino, CA. I am also the "network administrator" of what computer hardware we have now (which basically means I end up setting up incoming equipment).

I recently splurged and bought myself a well-equipped Thinkpad, for the exclusive purpose of fooling around with Web page serving/authoring. However, the school ended up with six Metricom Ricochet wireless modems (free for a year) as part of their test program for schools. I tend to think of myself as knowing something good when I see it, and snagged one to test out at home.

Not only is the device extremely useful, but I can upload Web pages and work on/fix my web server at the school. I can sit in my room and write this email as I am doing now, all free.

I can but imagine what it would be like to have such access for free and how great it would be for me and my fellow students to use the Internet as a research tool from anywhere we need, no access charges and no monthly fees!

I just wanted you to know I support the petition and as soon as I can get around to it I'll read the whole thing :) .

Cory Hamma
via Internet

State-Of-The-Art PC: Who Needs It?

I found the letter from Tom Ferris titled " What happened to the personal computer?" a little alarming. I am an electronic instructor at an occupational center in the LA Unified School district; and have found over the past few years an increasing number of people with similar feelings towards computer technology. I try to instill a sense of urgency and excitement in my students concerning the opportunities and benefits of the personal computer, and the fast changing and turbulent environment that it does, and will, play an ever increasing role in.

As an engineer and a teacher I can appreciate how the ever changing world of both software and hardware has moved our society, and the global village that we live in, from an industrial to an information society. What must be realized is that the personal computer is no longer a instrument for the novice; but an absolute necessity for any businesses to be competitive in this information society. This necessitates the need for the ever increasing power of software to do a wider variety of tasks. Unfortunately complexity is inherent in any system that continues to grow technologically.

What I find most disturbing is the underlying philosophy that many people display. People tend to live in the past; what Marshall Mcluhan describes as "Bonanza Land" in his book Understanding Media, is looking at new technology and saying "what old thing can I do with this?" rather than "what new thing can I do with this?"

The industry has not forgotten what the Personal Computer is; on the contrary, the industry has recognized through innovative individuals the potential that both the computer and accompanying software can offer their personal and business endeavors. Many insightful people have taken the PC beyond simple word processing, and have created new applications and opportunities.

The future will belong to those that understand and use this knowledge to their advantage. The age of the mainframe computer is giving way to the personal computer in the business place. Local area networks used to form work groups, teams and task forces are become prevalent in the industry for a variety of reasons, not least of which is cost effectiveness. Much of the complicated software allows me to do new creative things both personal and professional that would otherwise be insurmountable. I for one am glad to have the choices offered me by software such as WordPerfect 6.0a and the like.

Richard Fischetto
via Internet

I'd dare say most of us don't use, perhaps don't even need, our (personal) computer's full potential; for reasons relevant to each individual, one might only use a word processor while someone else might only need a graphics program and a spreadsheet, therefore making much of a computer's power useless.

If you don't need the expensive/complex software, simply erase it from your hard disk and get something that you feel comfortable with. Personally, I'm using a program called Geoworks Ensemble ver 2.01, which, although it has some limitations, is very practical and easy to use: nice graphic interface, bundled apps, long file names, WYSIWYG, multitasking, relatively very low system requirements (it would even work in a 286 with 640 KB of RAM, so don't dump that old computer!), and a very straightforward setup. Not meaning to sound like a salesrep for GEOS, I would highly recommend it to anyone who has the Windows blues and is still in love with good old DOS.

Adolfo Barrios
Pomona

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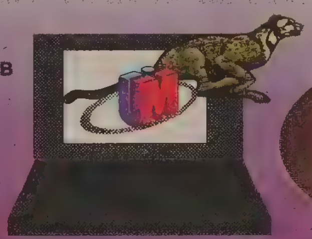
PCMCIA Type II slot
SVGA port to support external



UNLEASH THE POWER

Color: 5.8lbs with battery
Mono: 5.5lbs with battery

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SUPER VALUE	W/4MB 340MB HD	W/4MB 540MB HD	W/4MB 810MB HD
C5X86	1649	1749	1849
DX4/100	1549	1649	1749
DX2/80	1529	1629	1729
DX2/66	1499	1599	1699

Add $ 139 for 8MB MEMORY
Add $ 339 for 16MB MEMORY

VIDEO CARDS

SVGA 512K/1MB	$36/53
S3 VLB 1MB	63
Cirrus Logic VL 1 MB	59
Diamond Stealth64PCI/VLB DRAM1/2	109/149
Diamond Stealth VRAM 2/4MB	249/389
ATI Ultra Pro PCI/VLB 2MB VRAM	208/205
Orchid Kelvin 64 PCI/VLB 1/2MB	99/129
ATI Winboost 1/2 MB	119/159
ATI Winturbo 64 2/4MB	239/399

MONITORS

MAG15"DX15F NI	$329
17"DX17F NI	629
ACER: 14 " SVGA.28 NI	229
CTX: 14 " SVGA 1024.28	229
15 " SVGA 1024.28 NI	335
IMPRESSION:14" NI	209
15 " NI	285
NANAO: 17" NI	799
VIEWSONIC: 15" NI	349
17" NI	687
NEC, SONY, KFC, PROTON	LOWEST

FAX/MODEM

14.4/14.4Fax/Modem (Int)	$39
14.4/14.4Fax/Modem w/ Voice Mail (Int)	52
14.4/14.4Fax/Modem (Ext.)	59
U.S. Robotics 14400Fax/Modem(Int)	89
U.S. Robotics 28.8 Fax/Modem (Int)v3.4	189
28.8/28.8 Fax/Modem (Int)v3.4	109

CASES

Mini Tower w/ 230W PS	$33
Desktop w/230 PS	39
Compact Mid Tower w/ 230W PS	49
Mid Tower w/ 230W PS	55
Full Tower w/ 230W PS	79
Power Supply	27

KEYBOARDS/MICE

101 Enhanced Keyboard	$13
WIN 95 Enhanced KB	25
Keytronics 101 Enhanced	22
Microsoft Natural KB	59
MS Compatible Mouse	6
Microsoft Mouse w/ System Only	23
Logitech Mouseman	26

NETWORK

16 Bit Ethernet Card	$25
Cable/ Terminator	LOWEST
Netware 5/10/25	439/1249/1849
Netware Start Kit (Cable, Card & Software)	89

MISCELLANEOUS

Tape Back-Up 350/850 MB	$125/185
COLORADO	7/13
CPU Cooling Fan w/ Heat Sinlk (486 Pentium)	
Scanner: Handheld/Flatbed	69/319
Printer: HP, Brother, Cannon	lowest

TERMS AND CONDITIONS

1. One year parts & LIFETIME labor warranty on systems
2. Prices and company policy subject to change w/o notice
3. Not responsible for typographic errors.
4. Return shipping must be insured, prepaid and bearing on RMA# on the shipping label
5. Shipping insurance and COD charges are extra and non-refundable

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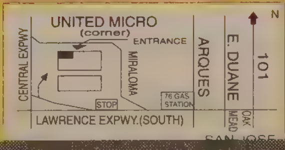

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2. Please fill in all the information legibly. By filling in the boxes neatly and legibly our OCR software can read your requests for quotation accurately. This will also ensure that your request is easier for advertisers to respond to your needs.

3. Do not cut inside the dotted line.

4. If you are asking for multiple systems and/or computer products in the same category but with different specifications, please use additional forms. This will ensure that your requests for quotation will be responded to accurately and without any confusion from *MicroTimes* advertisers.

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MicroTimes *Quotation Hotline*

Fax forms to: 1-800-496-8008

19777

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First Name
Last Name
Company Name
Title
Address
City
State
Zip Code
Area Code Phone Number ( ) - -
Area Code Fax Number ( ) - -
E-Mail Address
E-mail address (continued)

Number of Employees
○ 1 to 10 ○ 50 to 100
○ 10 to 50 ○ Over 100

What Is Your Purchase Time Frame?
○ 1 Week ○ 3 Weeks
○ 2 Weeks ○ 4 Weeks

Please Rank Your Choice
H=High L=Low
Ⓗ Ⓛ Price Ⓗ Ⓛ Service
Ⓗ Ⓛ Reseller Ⓗ Ⓛ Warranty
Ⓗ Ⓛ Onsite Support
Ⓗ Ⓛ Compatibles
Ⓗ Ⓛ Brand Name

To Be Used Where ? ○ Business ○ Home ○ Network

I Would Like To Receive My Quotation Sent To Me By: ○ Fax ○ Phone ○ E Mail ○ Mail

When requesting different types of systems or multiple systems types make copies of this form at 100% of actual size, do not reduce in size. Fill in your number of forms to follow.

Enter # Of Requested Forms ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

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STEP ONE: PICK A SYSTEM.
○ PC COMPATIBLE ○ MACINTOSH
○ PC NAME BRAND ○ Network WORKSTATION
○ PC NOTEBOOK ○ Network FILESERVER
○ MACINTOSH NOTEBOOK

PICK YOUR PREFERENCES
○ Name Brand
○ Compatibles
○ No Preference

Step 1: Enter PC System Brand Name & Model #. If Preference
Step 1: Enter NoteBook Brand Name & Model #. If Preference

Quantity / Choices
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ 10 or More ○

My Budget For System Is ○ Under $1000 ○ $1000 to $1999 ○ $2000 to $2999 ○ $3000 to $3999 ○ $4000 to $4999 ○ Over $5000

Call Me For A More Detailed Quote. ○
Quote Me For Selected Upgrade/Peripherals Choices Only. ○

STEP TWO: SYSTEM CONFIGURATION:
○ INTEL ○ AMD ○ CYRIX ○ NEXGEN ○ MAC QUADRA/PERFORMA ○ MACPOWER PC

CPU MHz & SPEED: ○ PENTIUM ○ 486
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 133 ○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 9600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp
○ Win NT ○ Mac ○ UNIX ○ DOS/Windows 3.11

STEP THREE: MULTIMEDIA UPGRADE
○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal
○ IDE ○ SCSI ○ External

CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+

SPEED ○ 2X ○ 4X ○ 6X

○ BRAND NAME ○ No Brand Name Preference
CD ROM Brand Name and Model Number

SOUND CARD ○ 16Bit ○ 32Bit

SPEAKERS ○ Less Than 25W ○ 25 to 50W ○ 50 to 75W ○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Docking Station ○ Extra Battery
○ Fax Modem ○ CD\MultiMedia

STEP FIVE: NETWORKING NEEDS:
○ Please Contact Me on My Networking Needs Indicated Below
○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration ○ MS Workgroups
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

19777

STEP SIX: UPGRADES & PERIPHERALS:
○ Ink Jet Printer ○ Tape Backup ○ Accelerator ○ Digitizer
○ Laser Printer ○ Color Printer ○ Dot Matrix Printer ○ Flat Bed Scanner ○ Hand Scanner ○ Zip Drive

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What's Cool!
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- *We speak your language; English, Spanish, Chinese, German, and Japanese.*
- *We provide more than 40,000 items and many name brand products.*
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- *We accept electronic Checking, and deliver fast reliable services via UPS.*

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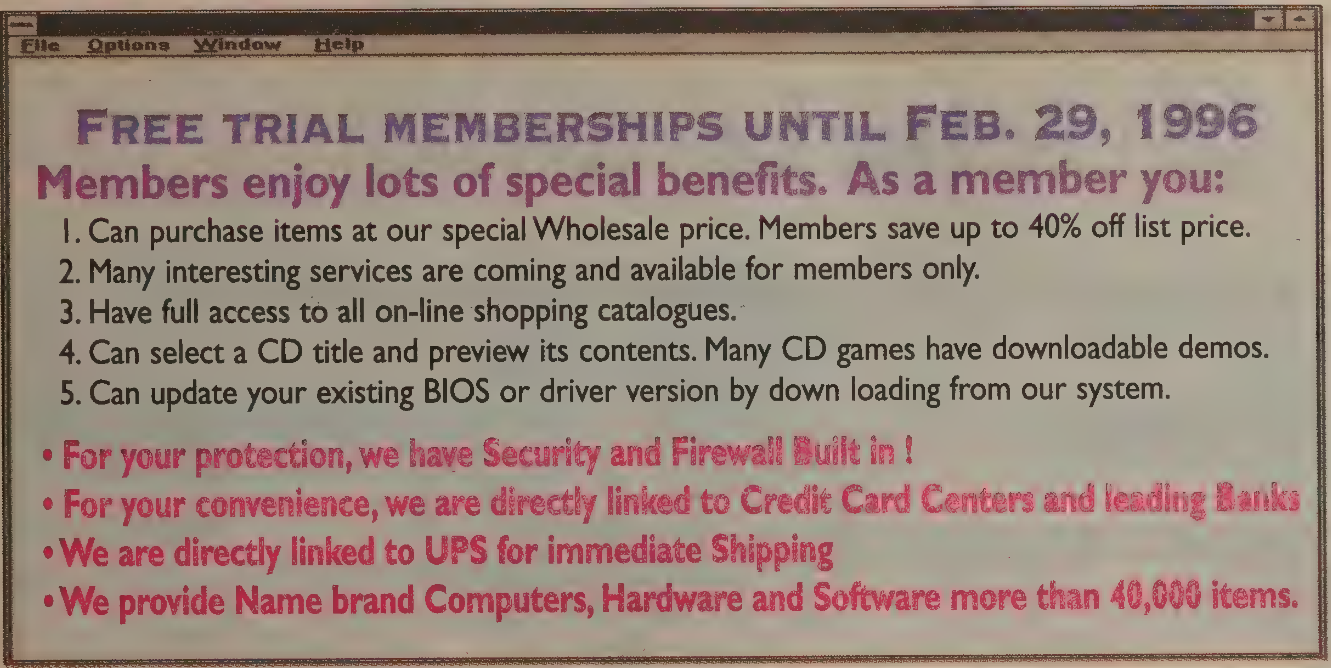
MEMBERSHIP APPLICATION

HD COMPUTER



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***HD** provides name brand hardware and software; IBM, Compaq, HP, Apple, Conner, Toshiba, Sony, NEC, Microsoft, Novell, Adobe, Borland, Corel, Lotus etc... plus our own award winning VICTORIA SERIES systems and over 40,000 items in our inventory.*

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City: __________ **State:** ______ **Zip Code:** __________ **Country:** __________

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HD COMPUTER

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- Intel Pentium® 133MHz CPU
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- 101 Key Enhanced Keyboard
- 1.6GB Enhanced IDE Hard Disk
- PCI Enhanced IDE Controller
- 2-16550 Serial Ports & 1-Parallel Port
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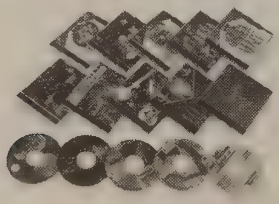
- 17" 1280 x 1024 Non-Int, Flat Screen, .28 Dpi
- TEAC 6X Enhanced IDE CD-ROM
- Sound Blaster 16 + 160 Watt Stereo Speaker
- Microsoft Serial Mouse & Mouse Pad
- Microsoft Windows 95
- NetScape Navigator 2.0
- 3COM ISDN External Digital Modem w/V.32

$3795



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- Diamond Stealth 64 PCI w/2MB DRAM
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- TOSHIBA 4X Enhanced IDE CD-ROM
- Sound Blaster 16 + 50 Watt Stereo Speaker
- Microsoft Serial Mouse & Mouse Pad
- Microsoft Windows 95
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- Intel Pentium® Pro 150MHz CPU
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- 101 Key Enhanced Keyboard
- Seagate 4.3GB SCSI Hard Disk
- Adaptec 3985 PCI RAID SCSI Controller
- 2-16550 Serial Ports & 1-Parallel Port
- Diamond Stealth 64 PCI w/1MB
- 15" 1280 x 1024 Non-Int, Flat Screen, .28 Dpi
- HP 1536ADAT 4.0 GB SCSI Tape Back-Up
- TOSHIBA 3701 SCSI 6X CD-ROM
- 3COM 3C595 PCI Ethernet Card
- Microsoft Bus Mouse & Mouse Pad

$7995

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PENTIUM® Pro Super Server

- Asus Pentium® Pro w/256K Cache Motherboard
- Intel Pentium® Pro 150MHz CPU
- 16MB Ram Exp. to 512MB
- 3 1/2" 1.44MB Floppy Disk Drive
- 101 Key Enhanced Keyboard
- Seagate 2.0GB SCSI Hard Disk
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports & 1-Parallel Port
- Diamond Stealth 64 PCI w/1MB
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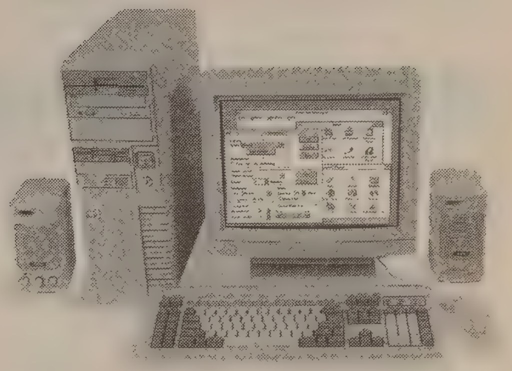
- 3COM 3C590 PCI Combo Ethernet Card
- Microsoft Bus Mouse & Mouse Pad

$5995



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Email: hd@fn.hdcomputer.com

TERMS AND CONDITIONS: • 30 days return policy • 1 year parts + labor warranty • Major credit cards accepted • No surcharge for VISA, MC, AE and Discover Cards • Quality PO's accepted from Academic, Corporate and Public Institutions • APO's welcome • Shipping charge not refundable • Return shipments must be insured, prepaid and bear an RMA# on the shipping label • Price does not include shipping • Price are subject to change without notice • Component warranties offers and claims are handled by the manufacturer • Components Compatibility is not guaranteed • No return on used items • All open returns are subject to 15% restocking fee • No exchanges or refunds on CD's will be replaced with the same item only... • Allow 14 days to process refund. • Not Responsible for typographical errors. • ***PRICE GOOD THRU FEBRUARY 29, 1996***

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- 1.44MB Floppy Drive
- 1.6GB EIDE Hard Drive
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- Diamond Stealth 64 PCI Video Card W/2MB VRAM
- 28.8 INT Fax/Modem
- ON Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft Windows 95

Impression 4X Multimedia Kit

- QUAD Speed IDE CD ROM
- 16 Bit Sound Card & Stereo Speaker
- Encarta 95
- MS Works
- MS Money
- MS Entertainment Pack

75MHZ	$2745
90MHZ	$2845
100MHZ	$2895
120MHZ	$2995
133MHZ	$3195

**** Microsoft Office 95 $340***

** Only w/system sale*

File Options Window Help

Victoria RED

- Intel Zappa Triton Motherboard w/256k Cache
- Intel Pentium® Processor and CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1 GB SCSI Hard Drive
- 15" Non-Interlaced Monitor
- Diamond Stealth 64 PCI Video Card w/2MB DRAM
- 28.8 INT Fax/Modem
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft Windows 95
- Six Speed EIDE CD ROM

75MHZ	$2195
90MHZ	$2295
100MHZ	$2345
120MHZ	$2445
133MHZ	$2645

File Options Window Help

Victoria BLUE

- Pentium® Chip-Based Motherboard w/256k Cache
- Intel Pentium® Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1.0GB SCSI Hard Drive
- MAG DX 15" Non-interlaced Monitor
- Diamond Stealth 64 PCI Video Card w/2MB VRAM
- 28.8 INT Fax/Modem
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft Windows 95
- Six Speed SCSI CD ROM

75MHZ	$2545
90MHZ	$2645
100MHZ	$2695
120MHZ	$2795
133MHZ	$2995

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TERMS AND CONDITIONS: • 30 DAYS RETURN POLICY • 1 YEAR PARTS + LABOR WARRANTY • MAJOR CREDIT CARDS ACCEPTED • NO SURCHARGE FOR VISA, MC, AE AND DISCOVER CARDS • QUALITY PO'S ACCEPTED FROM ACADEMIC, CORPORATE AND PUBLIC INSTITUTIONS • APO'S WELCOME • SHIPPING CHARGE NOT REFUNDABLE • RETURN SHIPMENTS MUST BE INSURED, PREPAID AND BEAR AN RMA# ON THE SHIPPING LABEL • PRICE DOES NOT INCLUDE SHIPPING • PRICE ARE SUBJECT TO CHANGE WITHOUT NOTICE • COMPONENT WARRANTIES OFFERS AND CLAIMS ARE HANDLED BY THE MANUFACTURER • COMPONENTS COMPATIBILITY IS NOT GUARANTEED • NO RETURN ON USED ITEMS • ALL OPEN RETURNS ARE SUBJECT TO 15% RESTOCKING FEE • NO EXCHANGES OR REFUNDS ON CD'S WILL BE REPLACED WITH THE SAME ITEM ONLY... • ALLOW 14 DAYS TO PROCESS REFUND. • NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS. • ***PRICE GOOD THRU FEBRUARY 29, 1996***

Victoria™ Series

HD COMPUTER

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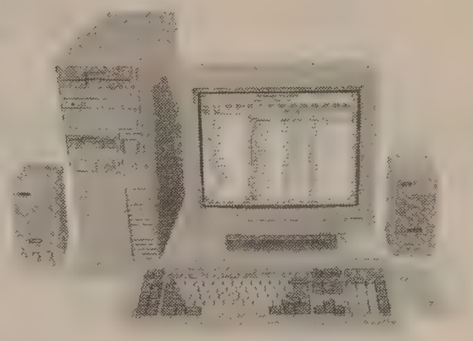
Victoria MAGENTA MONTHLY SPECIAL

- Asus Triton Chipset Motherboard
- Intel Pentium® 75MHz CPU
- 8MB Ram Exp. to 128MB
- 3 1/2" 1.44MB Floppy Disk Drive
- 635MB E-IDE Hard Disk Drive
- 14" 1024 x 768 Non-Int, .28 Dpi
- Diamond Stealth 64 PCI w/1MB
- PCI Enhanced IDE Controller
- 2-16550 Serial Ports & 1-Parallel Port
- Mini Size Tower Case w/230w PS
- 101 Key Enhanced Keyboard
- Microsoft Serial Mouse & Mouse Pad
- Microsoft Windows 95
- Quad Speed CD-ROM

$1495



**** Microsoft Office 95 $340***

** Only w/system sale*

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CUSTOMIZED SYSTEM CONFIGURATION (CSC)

HD COMPUTER

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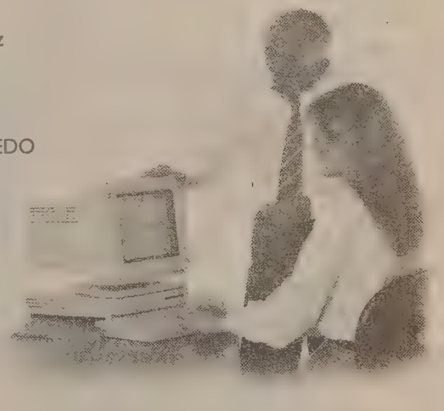
FROM:________________
Company Name:________________
Name:________________
TEL:________________
FAX:________________
EMail:________________
PAGE_____**OF**_____

SYSTEM	☐ AMD 486 ☐ INTEL 486 ☐ INTEL PENTIUM ☐ P-6 ☐ NexGen 586
CLOCK SPEED	☐ 66 MHz ☐ 75 MHz ☐ 80 MHz ☐ 90 MHz ☐ 100 MHz ☐ 120 MHz ☐ 133 MHz ☐ 150 MHz
BUS FOR PENTIUM®	☐ PCI/ISAz ☐ PCI/ISA (Dual CPU) ☐ PCI/EISA (Dual CPU)
BUS FOR 486	☐ PCI/ISAz ☐ PCI/VL/ISA ☐ VL/ISA ☐ EISA/VL
CACHE	☐ 128 K ☐ 256 K ☐ 512 K ☐ 1 MB ☐ PIPELINE
MEMORY	☐ 4 MB ☐ 8 MB ☐ 12 MB ☐ 16 MB ☐ 24 MB ☐ 32 MB ☐ 64 MB ☐ 128 MB ☐ 256 MB ☐ EDO
CASE	☐ DESKTOP ☐ TOWER+230W ☐ MINI+230W ☐ MID+230W ☐ FULL+230W
KEYBOARD	☐ 101 KEY ☐ MS NATURAL ☐ 104 KEY
FLOPPY A	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL/2.88 MB
FLOPPY B	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL/2.88 MB
HARD DRIVE	☐ 540 MB ☐ 850 MB ☐ 1.0 GB ☐ 1.2 GB ☐ 1.6 GB ☐ 2.0 GB ☐ 4.3 GB ☐ 9.0 GB
CONTROLLER	☐ IDE ☐ E-IDE ☐ SCSI ☐ PCI ☐ EISA ☐ VLB
I/O PORT	☐ 2S1P ☐ 2S1P1G ☐ 2S/16550/1P
VIDEO CARD	☐ MGP ☐ SVGA ☐ VLB ☐ PCI ☐ 1 MB ☐ 2 MB ☐ 4 MB ☐ 8 MB
MONITOR	☐ 14" ☐ 15" ☐ 17" ☐ 20" ☐ 21"
FAX MODEM	☐ EXTERNAL ☐ INTERNAL ☐ 1.44 K ☐ 28.8K
TAPE BACKUP	☐ EXTERNAL ☐ INTERNAL ☐ AT BUS ☐ DAT 2 GB ☐ DAT 4 GB ☐ SCSI ☐ 350 MB ☐ 700 MB ☐ 800 MB ☐ 1.4 GB
CD ROM	☐ EXTERNAL ☐ INTERNAL ☐ 4X ☐ 6X ☐ 8X
SOUND CARD	
MOUSE	☐ MICROSOFT ☐ LOGITECH ☐ GENERIC ☐ SERIAL ☐ BUS ☐ TRACKBALL
SOFTWARE	☐ WINDOWS 3.11 FOR WORKGROUP ☐ OS/2 ☐ WINDOWS 95 ☐ WINDOWS NT ☐ DOS 6.22 & WINDOWS 3.11
NETWORK	☐ ISA ☐ EISA ☐ VLB ☐ PCI
OPTIONS	________________________



MAKE AS MANY COPIES AS YOU NEED FOR FRIENDS AND COLLEAGUES. THANK YOU.

Simply circle or fill in the items you would like included in your system and fax it and HD will do the rest.

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Authorized
Reseller

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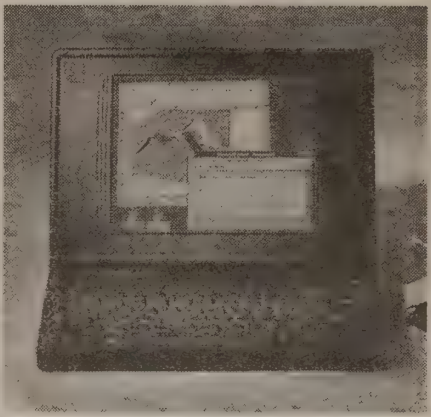
HEWLETT PACKARD

HP OMNIBOOK 4000CT
- INTEL 486DX4-100 MHZ CPU
- 8MB RAM EXP TO 40MB
- 810MB HDD/16 BIT SOUND
- 10.4" ACTIVE MATRIX COLOR
- TRACKBALL/STEREO SPEAKERS
- 7.3LBS/3 YEAR WARRANTY

$3559 *PN F1097A*

HP OMNIBOOK 5000C
- INTEL PENTIUM® 90MHZ CPU
- 16MB RAM EXP TO 40MB
- 1GB/HDD/16 BIT SOUND
- 10.4" ACTIVE MATRIX COLOR
- TRACKBALL/STEREO SPEAKERS
- 7.3 LBS/3 YEAR WARRANTY

$5795 *PN F1131A*



**** Microsoft Office 95 $340***
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• HP DESKJET 340	**$295.00**
• HP DESKWRITER 340	**$295.00**
• HP DESKJET 600	**$299.00**
• HP DESKWRITER 600	**$299.00**
• HP DESKJET 660c	**$389.00**
• HP DESKWRITER 660c	**$389.00**
• HP DESKJET 850c	**$529.00**
• HP DESKJET 1200c	**$979.00**
• HP DESKJET 1200c/PS	**$1589.00**
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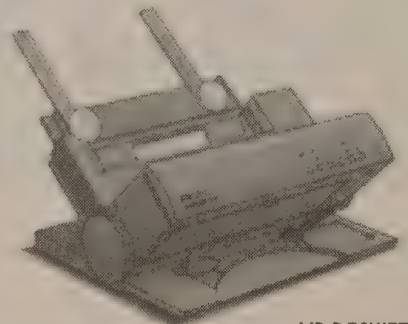
• HP LASERJET 5MP	**$1049.00**
• HP COLOR LASERJET	**$5499.00**
• HP ScanJet 4C	**$929.00**



HP DESKJET 340

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HEWLETT PACKARD

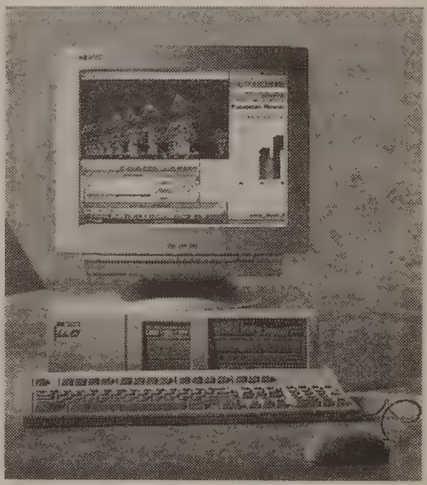
HP DESKTOP SYSTEMS

VECTRA VE PENTIUM®
- INTEL PENTIUM® 75/90MHz CPU
- 8MB RAM EXP TO 192MB
- 540MB HDD/1.44 FDD
- 1MB 64 BIT SVGA CARD
- HP KEYBOARD & MOUSE
- MS WINDOWS '95 (MONITOR NOT INCLUDED)
- 3 YEAR LIMITED WARRANTY

75MHz	***$1389***	*D3392A*
90MHz	***$1569***	*D3415A*

VECTRA XM3
- INTEL PENTIUM® 75/90/120/133MHz CPU
- 8MB RAM EXP TO 192MB
- 840MB HDD/1.44 FDD
- 1MB 64 BIT SVGA CARD
- 32 BIT ETHERNET CARD
- HP KEYBOARD & MOUSE
- MS WINDOWS '95 (MONITOR NOT INCLUDED)
- 3 YEAR LIMITED WARRANTY

75MHz	***$1779***	*D3482A*
90MHz	***$2049***	*D3485A*
120MHz	***$2495***	*D3562A*
133MHz w/16MB	***$3059***	*D3950A*



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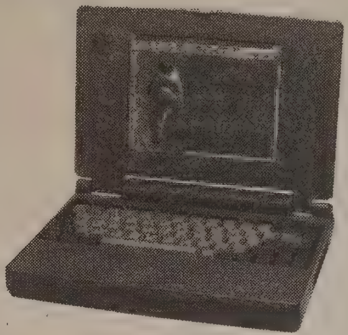
TOSHIBA NOTEBOOKS


T2110CS

TOSHIBA T2110CS
- INTEL 486DX4-75MHZ CPU
- 4MB RAM EXP TO 28MB
- 330MB HDD
- 10.4" DSTN COLOR/1MB SVGA
- ACCUPOINT MOUSE

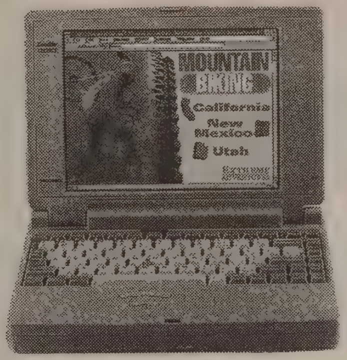
$1759 *PA1208U-52A*

TOSHIBA T2150CDS
- INTEL 486DX4-75MHZ CPU
- 4MB RAM EXP TO 28MB
- 520MB HD
- 10.4" DSTN/1MB SVGA
- ACUPOINT MOUSE

$2595 *PA1184U-52A*

TOSHIBA TECRA 700
- INTEL PENTIUM 120 MHz CPU
- 8/16MB RAM
- 11.3" DSTN/TFT COLOR
- 1.23 GB REMOVABLE HDD
- 1.44 MB FDD/16 BIT SOUND
- 7.5 LBS

***700CS w/8 MB* $4899**
***700CT w/16 MB* $5999**



TOSHIBA PORTEGE T610CT
- INTEL PENTIUM 90MHZ CPU
- 8MB RAM EXP TO 40MB
- 720MB HDD
- 9.5" TFT COLOR/1MB SVGA
- 16 BIT SOUND CARD

$4049 *PA1123U-T9W*

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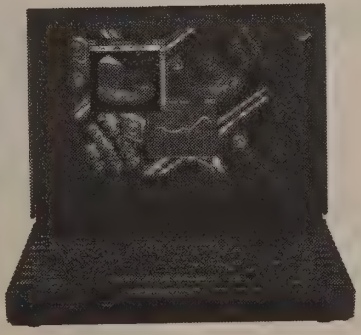
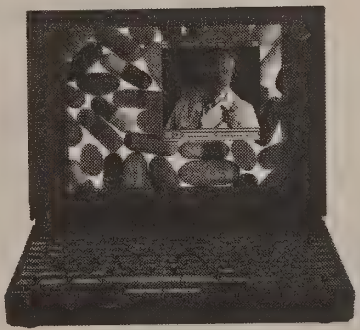
IBM GREAT AVAILABILITY ON THINKPADS

IBM Business Partner


IBM 701C

IBM THINKPAD 701C
- 486DX4-75CPU
- 8MB RAM Exp to 24MB
- 540MB HDD
- 10.4" DSTN or TFT DISPLAY
- Trackwrite Expandable Keyboard
- 2 Type II or 1 Type III PCMCIA
- DOS/Windows/Lotus Organizer, etc...
- 3 Year Int'l Easy Server Warranty
- 4.5 lbs

***DUAL SCAN* $2949** *26205SU*
***ACTIVE MATRIX* $3495** *26305TU*


IBM 755CX

IBM THINKPAD 755CX
- Pentium 75MHz CPU
- 8MB RAM Exp to 24MB
- 540MB HDD/1.44MB FDD
- 10.4" Active TFT Display
- Full Size 85 Key Keyboard
- DOS/Windows & OS/2 Warp
- 3 Year Int'l Easy Server Warranty
- 6.1 lbs

$4179 *PN9545SBK*

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EPSON® NOTEBOOKS

ActionNote 880C

- 486DX2-80MHZ CPU
- 8MB RAM EXP TO 24MB
- 340MB HDD/1.44MB FDD
- 10.3" DSTN COLOR/1MB SVGA
- 14.4 FAX MODEM
- 16 BIT SOUND
- MS DOS/WINDOWS
- 6.0 LBS

$2295 *A544201*

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ActionNote 880CX

- 486DX2-80MHZ CPU
- 8MB RAM EXP TO 24MB
- 700MB HDD/1.44MB FDD
- 10.4" TFT COLOR/1MB SVGA
- 14.4 FAX MODEM
- 16 BIT SOUND
- MS DOS/WINDOWS
- 6.0 LBS

$3295 *A536211*

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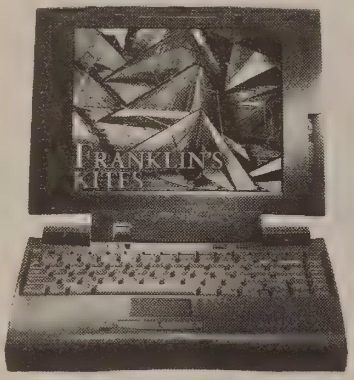
NEC

NEC AUTHORIZED RESELLER

VERSA® SERIES OF NOTEBOOK COMPUTERS



NEC VERSA 2000D

NEC VERSA 2000 D

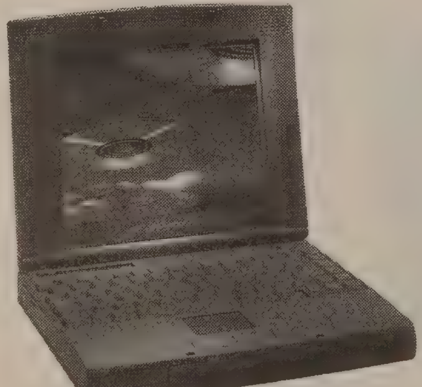
- 486DX4-75MHz
- 4MB EXP to 36MB
- 350MB HDD/1.44 FDD
- 10.4" DSTN VGA
- 2 Type II or 1 Type III PCMCIA
- MS Windows 95
- Versa Glide Touch Pad
- 6.3 lbs

$1849 *PN41301W*

NEC VERSA 2000 C

- 486DX4-75 MHz
- 8MB EXP to 40MB
- 350MB HDD/1.44 FDD
- 9.5" TFT VGA
- 2 Type II or 1 Type III PCMCIA
- Internal 14.4 Fax Modem
- MS Windows 95
- Versa Glide Touch Pad
- 6.5 lbs

$2329 *PN11302MW*



NEC VERSA 4000C

NEC VERSA 4000 D

- Pentium® 75MHz
- 8MB EXP to 40MB
- 540MB HDD/1.44MB FDD
- 10.4" DSTN VGA
- 2 Type II or 1 Type III PCMCIA
- 16 Bit Sound & Speakers
- MS Windows 95
- Versa Glide Touch Pad
- 6.3 lbs

$3299 *PN41402*

NEC VERSA 4000 C

- Pentium® 90MHz
- 8MB EXP to 40MB
- 540MB HDD/1.44MB FDD
- 10.1" TFT VGA
- 2 Type II or 1 Type III PCMCIA
- 16 Bit Sound & Speakers
- Internal 14.4 Fax Modem
- MS Windows 95
- Versa Glide Touch Pad
- INT CD ROM
- 6.6 lbs

$4495 *PN11602C*

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AST NOTEBOOKS

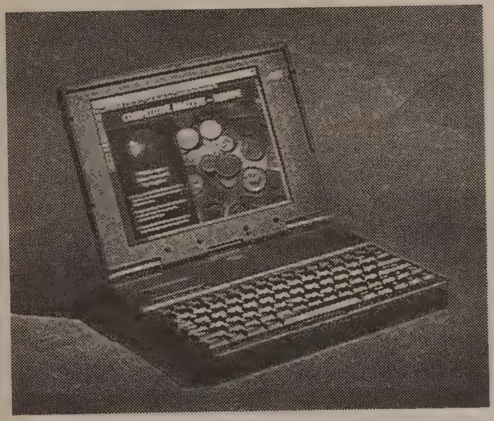
ASCENTIA 910N

- 486DX4-75MHZ CPU
- 8MB RAM EXP TO 32MB
- 510MB HDD
- 10.3" TFT COLOR
- MS DOS/WINDOWS
- 3 YEAR WARRANTY

ACTIVE MATRIX ***$2895*** *501589-301*

ASCENTIA 950N

HD COMPUTER



ASCENTIA 910N

ASCENTIA 950N

- INTEL PENTIUM® 75 MHZ CPU
- 8MB RAM EXP TO 40MB
- 810MB HDD
- BUILT-IN SOUNDBLASTER 16
- 10.4" DSTN/TFT COLOR
- MS DOS/WINDOWS
- 3 YEAR WARRANTY

DUAL SCAN	***$2949***	*501707-301*
ACTIVE MATRIX	***$3899***	*501708-301*

AST®
Authorized Reseller

**** Microsoft Office 95 $340***
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Acer ®

NOTEBOOKS

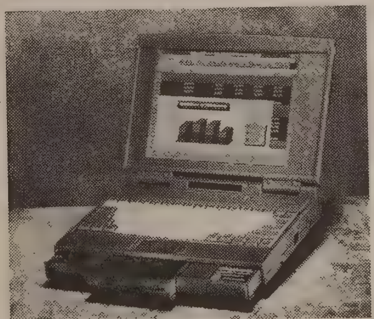
AUTHORIZED RESELLER

AcerNote LIGHT

INTEL 486DX4-75MHZ CPU

- 8MB RAM EXP TO 32MB
- 420MB HDD/1.44MB FDD
- 10.4" DSTN COLOR/1MB SVGA
- ERGONOMIC TOUCHPAD
- MS WINDOWS '95
- 5.0 LBS
- 3 YEAR LIMITED WARRANTY

$1990 *352*

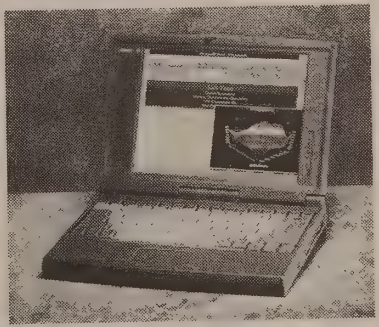


AcerNote PRO

INTEL PENTIUM 75 MHZ CPU

- 8MB RAM EXP TO 40MB
- 540MB HDD/1.44MB FDD
- 10.4" DSTN/TFT COLOR
- 1MB PCI SVGA
- ERGONOMIC TOUCPAD
- MS WINDOWS '95
- 6.4 LBS
- 3 YEAR LIMITED WARRANTY

DUAL SCAN	***$2409***	*954*
ACTIVE MATRIX	***$2909***	*957*



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NETWORK CARDS

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Novell Authorized Reseller

3.12 5/10/25 User(OEM)
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3.12 5/10/25 User(Regular)
$595/1375/2095
4.1 5/10/25 User(OEM)
$560/1195/1895
4.1 5/10/25 User(Regular)
$695/1495/2195

DANPEX

PCI Ethernet Card	$129
EN-2400PB 16Bit BNC s/w	$42
EN-2400PT 16Bit 10BT s/w	$39
EN-2400P3 16Bit Combo 3-in-1	$47
EN-6200P2 1PCMCIA Combo	$150
EN-6000BT Pocket Lan 10BT	$135
EN-4001 4Port 10BT Hub	$125
EN-800A 8Port 10BT Hub	$155
EN-1212A 12Port 10BT Hub	$325
Modular Print-Server For Netware	$325

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INTEL

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GUEST EDITORIAL • BY JEFF QUIROS

Scientology For The Internet

A Response From The Church

(When we sent Chris Bucholtz off to write the article that appeared in Issue #143 as "Scientology Versus the Internet," it was with the admonition that complex issues were involved, that anyone with an opinion on the subject tended to express it by screaming at someone else, and that nonetheless we hoped he'd be able to write a good introductory overview of the situation.

We think he did an outstanding job. We also hope that his article is the beginning of a rather more civil dialogue on the issues than we've previously encountered.

In the spirit of which we present this response from Jeff Quiros of the Church of Scientology. We invite your comments.—eds.)

What makes Chris Bucholtz's report "Scientology Versus the Internet" so appallingly inaccurate is that he has swallowed the big lie. And, though he took some pains to "balance" the piece by throwing in a few quotes from Church attorneys, he has done *MicroTimes* readers, the Church of Scientology, and, indeed the entire Internet community, a grave disservice. He built his story upon a basic premise postulated by adversaries of the Church, and the Internet, to justify their malevolent actions.

The shameless and barefaced lie, whined by the defendants and their counsel in copyright infringement cases filed by the Church, is that the various legal actions taken by the Church against them have one whit to do with suppression of freedom of speech or silencing criticism.

This notion is ridiculous on its face.

Freedom of speech, the press, assembly, and freedom of religion are woven together in the fabric of the First Amendment. Anyone willing to do a little homework will discover that the First Amendment has had few better advocates than the Church of Scientology over the past forty years.

The Church is widely recognized as a leader in cleaning up the field of mental health and the protection of human rights threatened by abusive psychiatric practices. It is also widely recognized as a champion of religious freedom and a pioneer in the application of the Freedom of Information Act, standing up for the individual citizen's right to know and to act upon that knowledge.

The Church's news journal, *FREEDOM*, has for decades boldly exposed the rotten spots in society, violations of human rights, and government corruption.

Indeed, per the "Code of a Scientologist," the faithful are enjoined, among other things, "to support true humanitarian endeavors in the fields of human rights," "to work for freedom of speech in the world," and "to actively decry the suppression of knowledge, wisdom, philosophy, or data which would help mankind." The extent of the industry of Church members in these areas over the years is truly remarkable.

Church of Scientology leaders and members are as excited about the Internet as everyone else is.

Per the Church's official position statement: "The potential of the Internet to link individuals from all corners of the world and unify diverse cultures and nationalities makes it a priceless resource for improving understanding between peoples."

The Church and Church-related groups are using the net to spread their messages, and new Web sites are springing up all the time (point your browser to *http://www.theta.com* for a good list).

Individual Scientologists have been and are getting hooked up in great numbers at least as fast as other educated segments of society.

We've all come for the same thing that the vast majority of netizens have: the unfettered flow of information to unlimited audiences and from unlimited sources. And, the ones I've talked to anyway, are one-for-one deeply concerned that the net remain free.

How can it be true that this same Scientology is the boogyman of the Internet? It is not—that's the big lie.

What the Church is doing is protecting its intellectual property rights and, in the larger view, the future of free speech online for the benefit of the net's responsible participants.

The Church of Scientology has brought three suits in the United States against individuals for making illegal postings of its copyrighted works on the Internet. All three courts have prohibited further wholesale postings or publication of the Church's protected works pending final outcome of the cases.

Each of these individuals are former members who could not live up to the ethical standards demanded by the Church. The fact of the matter is that each of these apostates has had a rich history of public criticism of the Church. Where they broke no laws or violated no copyrights, the Church has done nothing to stifle their right to criticize.

Hiding behind freedom of speech to justify theft of intellectual property in these cases doesn't wash any better than it would if disgruntled former employees of Apple Computer sold its proprietary source code to competitors in an effort to "criticize" the company.

Resorting to criminal acts in an attempt to bring harm to one's real or imagined enemies after one's criticisms fail to attract a significant following is a tactic taught in the Unabomber school of activism.

To say that the Church's legal actions to protect its intellectual property have a chilling effect on freedom of speech on the Internet, is as ludicrous as saying that arresting murderers has a chilling effect on freedom of expression and action—the truth is that it is abuse of freedom that degrades and threatens freedom.

The true enemies of freedom in cyberspace are the same enemies of freedom anywhere—those few individuals who commit crimes and then hide behind the rights designed by honest and responsible people to protect honest and responsible people. ■

Jeff Quiros is director of special affairs for the Church of Scientology in San Francisco and has been a member of the Church for nearly twenty-five years. He has been a computer user since "before Apples had disk drives" and is currently a professional systems analyst and programmer. Jeff is the chief spokesperson for the Church-founded Task Force for Responsibility and Freedom on the Internet, an association of Internet users who promote its ethical and responsible use through education and self-policing. He can be reached at ***jquiros@hooked.net*** .

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HP OmniGo 100: Big News In Pico Computing

HP-Geoworks Collaboration Offers Great Performance For The Price, Plus Third-Party Opportunities

It's been a long time since my last column; major stories in what has been a relatively moribund PDA industry have been few and far between—until recently. For one thing, Geoworks, a Berkeley-based software development company, and Hewlett-Packard, the well-known computer and scientific instrument manufacturer, have cooperated to develop the HP OmniGo 100, the first organizer-class machine from HP and the first keyboard-based palmtop from Geoworks. The OmniGo 100 uses the GEOS 2.1 operating system, an efficient, open, graphical operating environment developed by Geoworks originally as a small-footprint alternative to Microsoft Windows, and now being touted as a palmtop and pen-based operating system.

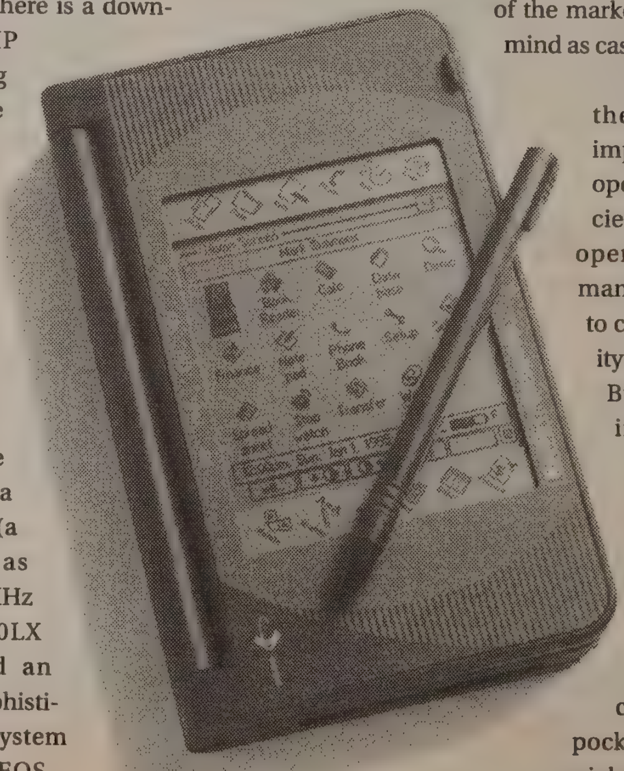
What sets the OmniGo 100 apart from the rest? First and foremost, GEOS is an open operating system: anyone who wishes can purchase the $99 SDK (it also requires Borland C++ 3.1 or above) and develop programs. Thus, the OmniGo 100 has the potential to be much more expandable and capable than most similarly priced organizers, and a host of third-party add-ons are likely to proliferate.

Secondly, it supports both pen and keyboard input. It also has a unique "fold-over" display that you have to see to really appreciate: you can either use the unit as a standard keyboard-based machine, like the Sharp Zaurus, or you can actually flip the screen all the way over to the other side, tap the "rotate" button, and use the machine like a pen-based computer. What makes it even better is that the built-in handwriting recognition software, Graffiti, is not only accurate enough to be useful but actually fun to learn (it doesn't use traditional handwriting recognition but requires the user to learn a special shorthand. It closely mimics the shape of normal letters but it's been modified to be less ambiguous).

Thirdly, and perhaps most importantly, is the price: the unit is roughly $350 street, which makes it one of the more affordable high-end organizers around.

PDA Power, Organizer Price

This is a very exciting machine: PDA power at an organizer price. There is a downside, however: HP seems to be trying to protect the market share of its DOS-based HP 100LX and 200LX portables by positioning the OmniGo at the bottom of their product line, though the OmniGo has a faster processor (a 16MHz 80186 as opposed to the 8MHz 80186 in the 100LX and 200LX) and an arguably more sophisticated operating system (the graphical GEOS, compared to the rather pedestrian DOS in the 100/200LX series).



Certain functions have been left out or made more difficult to access. For example, there is no terminal program, the spreadsheet is rather limited in size, the database program has various limitations, and there is no built-in file manager application. Although there are logical reasons for some of these omissions, the overall strategy is nevertheless an example of a common mistake. Rather than sacrificing their existing business in order to grab a potentially much larger new business, companies sometimes fall into the error of trying to protect their perceived core business, and in the meantime do not move aggressively into the newer, smaller end of the market (IBM and DEC come to mind as cases in point).

The OmniGo 100 nevertheless has a number of impressive features, and the open nature of the small, efficient, object-oriented GEOS operating system will allow many third-party developers to close the gap in functionality with add-on applications. By releasing such an intriguing machine now, HP takes a leading position, forcing competitors to struggle to keep up.

The OmniGo 100 measures approximately 1" x 3 3/4" x 6"; it is small enough to fit in a coat pocket or a large pant pocket. It is reasonably lightweight at around 1lb.—it definitely has a "go-anywhere" feel. Built-in applications include a full-function appointment book/calendar, phone book, notepad, database, "jotter" (see below), many financial functions, a spreadsheet, calculator,

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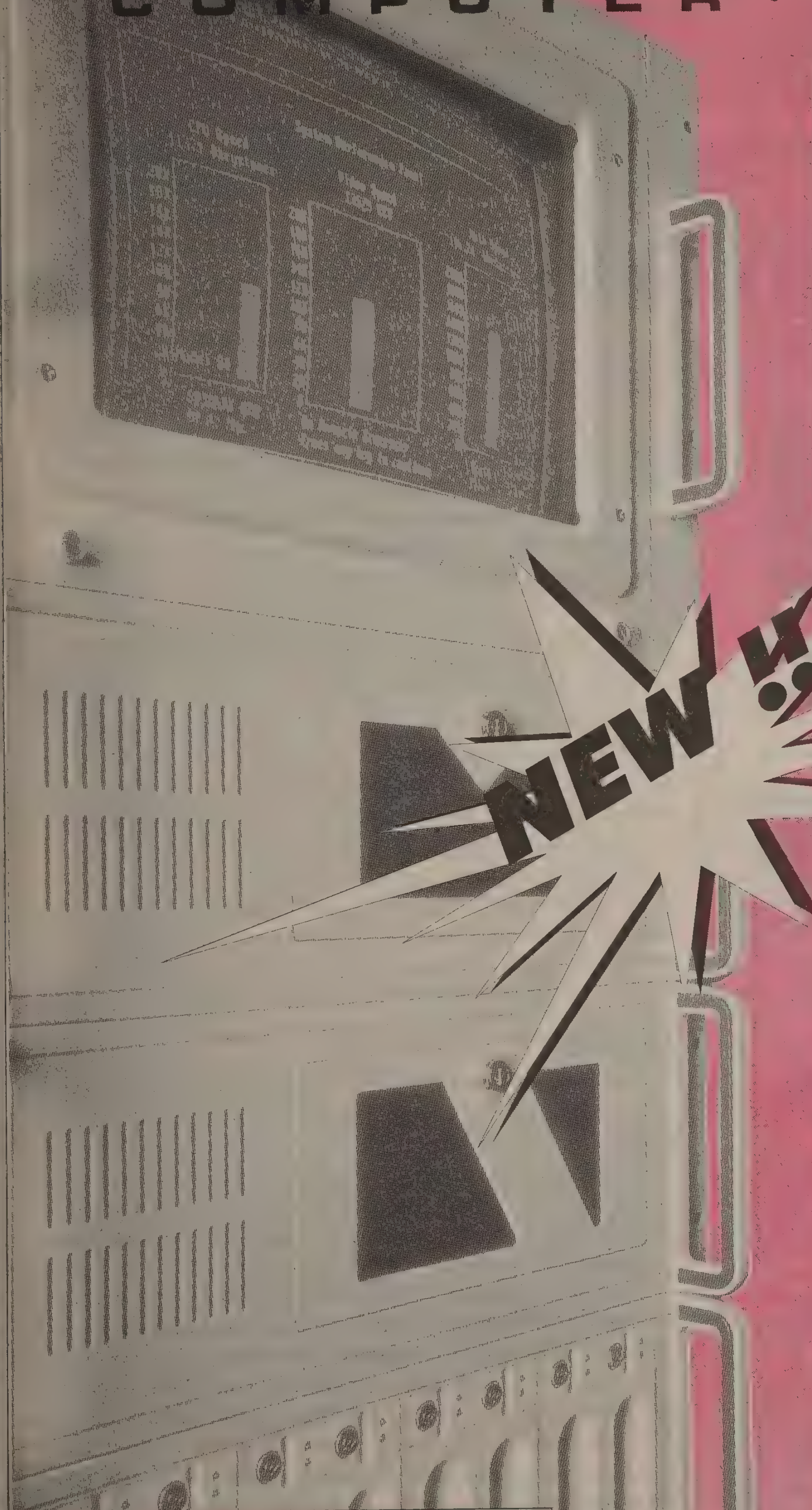

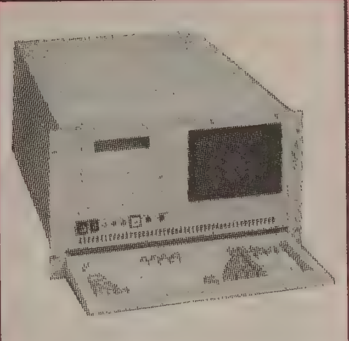

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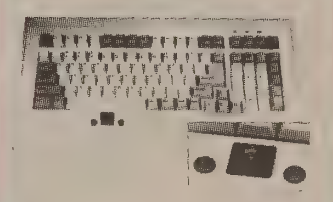

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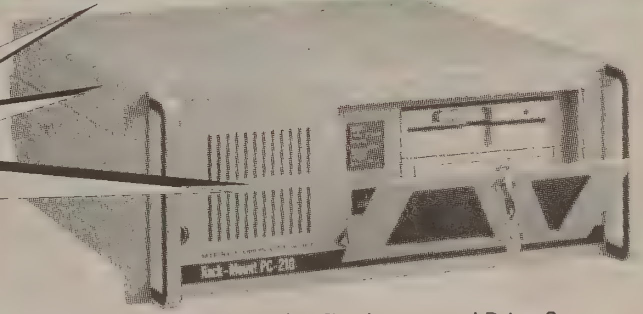

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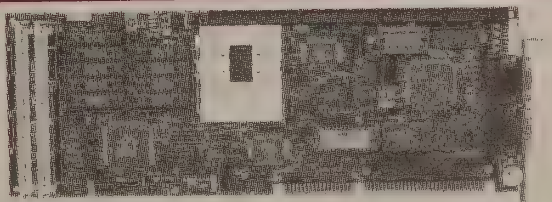

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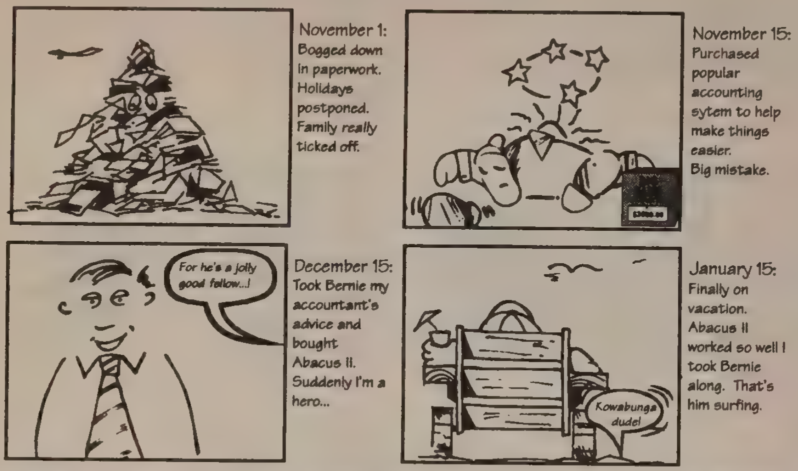
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Palmtops *continued...*

"book reader," world time function, and even a solitaire game. The screen is 240 x 240 pixels in size and is touch-sensitive; this allows you to use the built-in pen stylus for selecting options as well as data entry. The keyboard is spacious, big enough to allow relatively quick typing (unlike the HP 100/200LX, which has a very cramped keyboard due to its numeric keypad). The keys have that nice HP tactile feedback and are easy to find, almost permitting touch-typing (of course not as fast as a normal keyboard, but much faster than most organizers permit).

One major negative is the screen contrast: it is very dim, although not quite as bad as the Sony Magic Link PIC-1000 (which has the worst palmtop screen I have ever seen). However, careful adjustment of the contrast controls makes it quite tolerable in average lighting conditions. The display is very readable in bright light (provided, again, you play with the contrast controls).

Included is a very capable text editor. It allows mixed text and graphics; boldface; italics; underline; left, right, and center justification; and it is fast enough to accept keyboard input without overflowing (I was unable to overflow it while typing normal English text). It only supports two font sizes (small and large) but otherwise has enough features for a wide variety of text editing. One of the nicest features of the software is that the notepad can be called up to attach a note to almost any item; for example, you can attach a note to an address book entry that contains detailed directions and even a map, or attach a note to a schedule entry containing your flight and rental car reservation information. There is no separate drawing application; drawings are done inside the notepad. In addition to the text editor is the "jotter" applet. From within most of the applications you can click on the "jotter" and jot down a quick note, which can later be called up and stored. For example, someone tells you a phone number while you're in the middle of using the spreadsheet; you can just click on "jotter" and note down the number, and then go back to your work without missing a beat.

Graffiti

The notepad supports both pen drawings and text entry using both the keyboard and the Graffiti recognition system. As noted above, Graffiti uses a special set of marks to define letters; rather than trying to recognize normal handwriting (something that most recognizers have a terrible time with), Graffiti uses special marks that look like normal letters (in many cases they are exactly the same) but are specially designed to be easily distinguished from each other (for example, to write a "u" you write it from left to right, but a "v" must be written right-to-left.) It turns out to be easy to learn, and is a quite acceptable and even amusing way to input text.

In many cases, holding the unit with the screen folded over can be an easier way to interact with it than using the keyboard (although despite the relative accuracy and speed of Graffiti text entry, the keyboard remains the fastest way of entering text). The point is, you are not forced into any one mode of interaction; the unit functions perfectly well either with or without using the keyboard, whatever suits your fancy at the moment.

Features—And Limitations

The appointment calendar has day, week, month, and four-month views; it also includes a prioritized "ToDo" function that is well designed. It has

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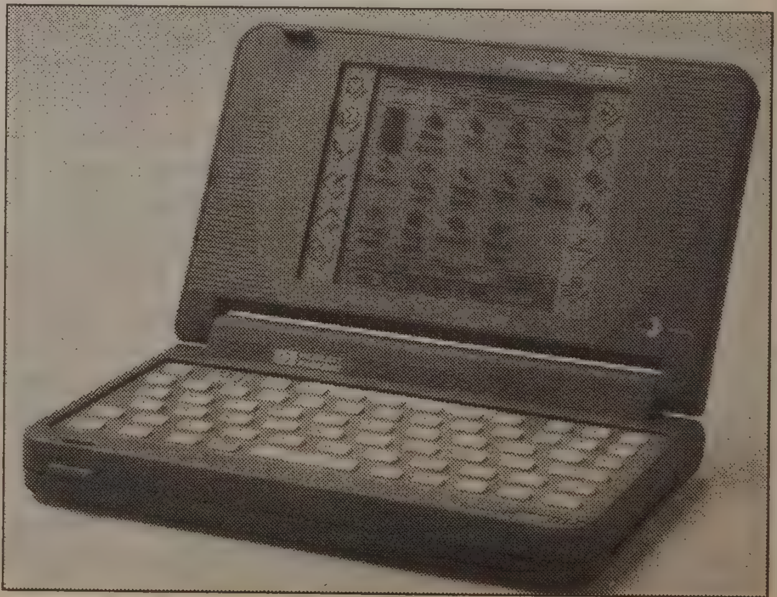
Palmtops *continued...*

the most recurring-event options I've ever seen. Not only does it support daily, weekly, monthly (both month-date and month-day, such as "the third Monday of each month"), and yearly events (again, both on a specific date as well as, for example, "the third Thursday of November"), but it also lets you specify bimonthly, or even extremely erratic events ("the third Tuesday and Wednesday of the second and third weeks of every odd month except September")—more options than any sane person would ever need. One minor downside is that you can only see the actual text of an event in the daily view; in every other view only the time of the event is visible. Deleting ranges of appointments is quite easy to do, although it would be nice if there were a way to assign a priority to an event so you can save certain events from deletion if so desired. Overall, it is a very well designed application.

The database, on the other hand, is one of the weaker tools. Although it allows you to create flat-file databases with a wide variety of different types of fields, there are a number of limitations. You cannot add or delete fields after you've created a database, and there seems to be no easy way to transfer data from one database to another. The layout of the data entry pages are limited to five fields per "page," and there's no way to rearrange them once you've set up a database. On the plus side, there is a "category" function that allows you to assign a set of user-defined attributes to each item in the database; for example, in the address book database you can have "restaurants," "hotels," "travel agents," etc., and tell the unit to only show a particular subset of the addresses. The phone book, implemented as a database, does not give the user the ability to modify fields. The cumbersome default format takes two pages to enter data, and makes switching pages rather awkward. Since users can define their own database formats, it is possible to create your own phone book database that is more convenient to use. The limitations in the database application seem to be an unfortunate example of HP's attempting to "dumb down" the unit in the manner I described above.

The OmniGo 100 comes with a complete set of well-designed financial functions. It includes Time Value of Money (for computing loan payments), Cash Flow, Business Percentage, Compound Interest, an



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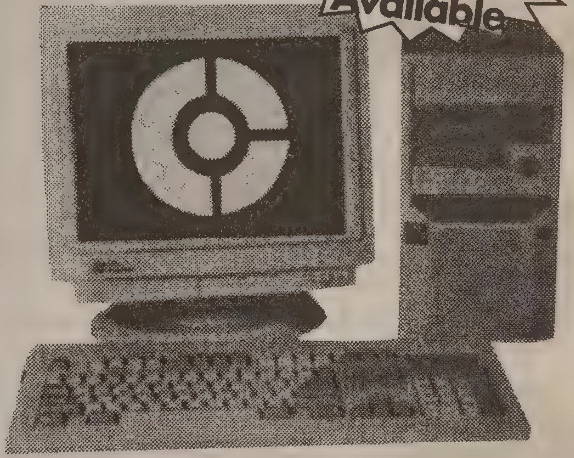

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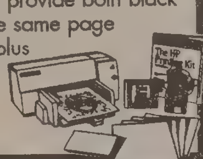

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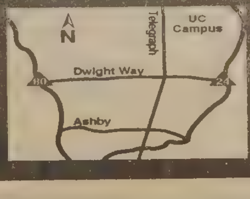

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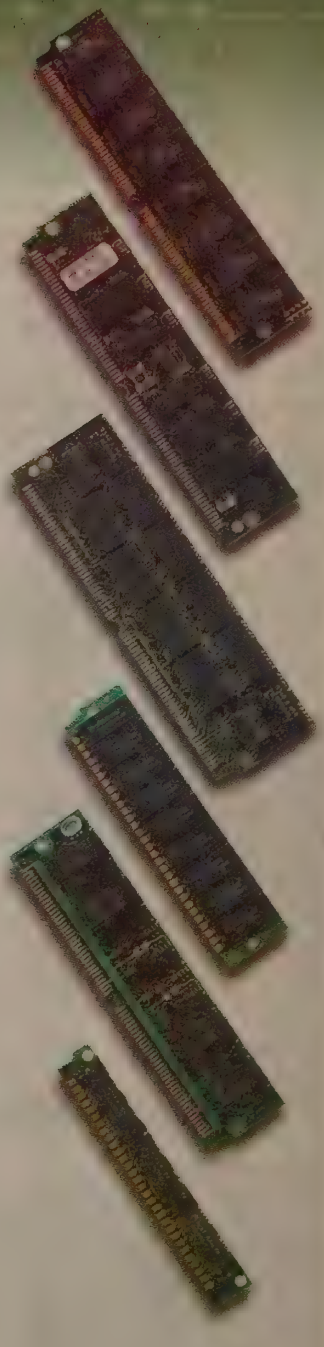

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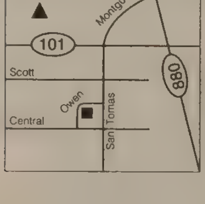

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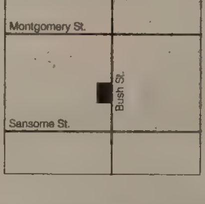

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Palmtops *continued...*

Equation Solver, Statistics, Conversions (currency, measures, etc.), a Date Calculator, and last but not least, a complete HP 12C programmable calculator emulator (it does not come with documentation, but you can order an HP 12C manual separately). These functions seem to be quite capable and well done; for the most part, they're a lot easier than trying to use the 12C emulator to do the same thing.

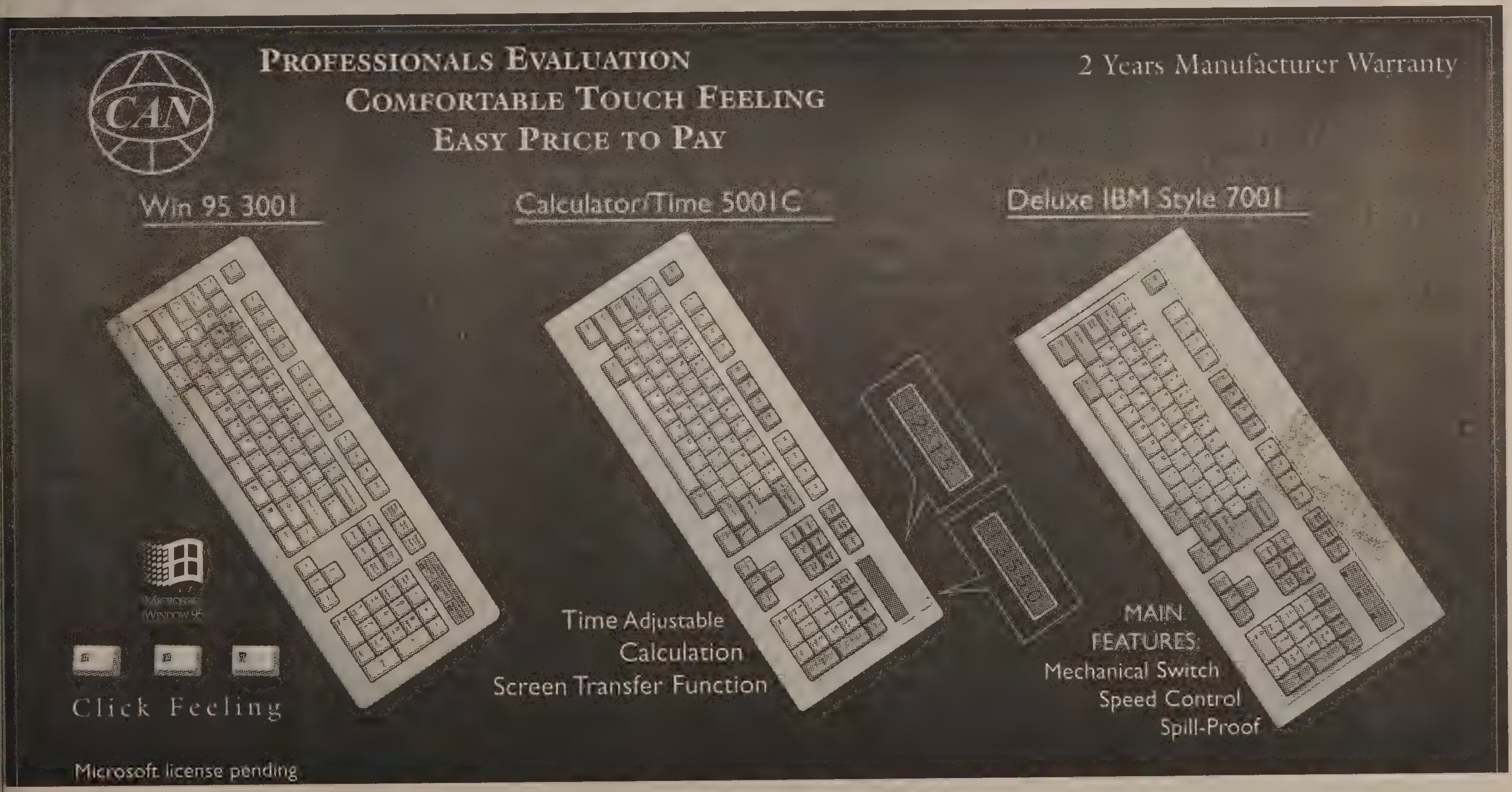
> In many ways, this is the first PDA that truly deserves the name: it's inexpensive enough and flexible enough to have the potential to become a mass-market success, despite the flaws.

Unfortunately, the built-in spreadsheet, while a useful little gadget, also seems to suffer from having been "dumbed down" for no good reason. Although the spreadsheet appears to be quite functional, including many scientific and financial functions, it cannot graph (somewhat curious as the unit comes with a full-function financial calculator that includes graphing). What's worse, the spreadsheet is limited to a mere 64 x 64 sheet—too small to do any serious financial projections, although big enough for modest calculations.

The spreadsheet application also seems quite inefficient; even relatively small sheets eat up huge amounts of very precious memory. This is quite disappointing; even my Casio SF-R20 supports up to 10,000 rows of 256 columns each, and it is far more efficient with storage. Another bad point is that you cannot change the size of nor get rid of the letters and numbers on the side and top of the sheet; they take up a lot of valuable screen space (on a machine with such a small screen, every pixel counts). Even if you use the "lock cells" option, which allows you to use rows and columns of data for titles, the obnoxious letters and numbers remain.

GEOS itself supports much larger spreadsheets, and it should not have been that difficult to make the display more user-adjustable. One can only think that these rather annoying problems were intended to prevent the OmniGo 100 from competing with the HP 100/200LX series in the area of serious spreadsheet use. This leaves the hope that third parties will take advantage of the GEOS operating system's built-in spreadsheet functionality to ship much more powerful and efficient spreadsheets. On the plus side, I will say that even a small spreadsheet such as this is a definite advantage for an organizer; most organizers have no spreadsheets at all.

An annoying limitation of the HP OmniGo is the way it uses memory cards. The built-in applications cannot normally use files on a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RAM card; RAM cards can usually only be used for "backing up" files from main memory. Since the OmniGo 100 comes with only 300K or so of main user storage, this can be a nuisance. To get at large files you have to actually move them in and out of the precious 300K of RAMdisk, shuffling them about until you have the files you want in main memory. The apparent purpose of this is to prevent the user from having to think too much about files and directories—a good idea in principle, but one that makes it difficult to use the machine to its full potential.

There is still hope: apparently, applications that reside on the RAM cards can store their data directly on those same cards. This means that third parties can create database and other applications that directly access data on the more spacious RAM cards.

First PDA Worthy Of The Name?

Despite these flaws, this is an impressive machine at a good price. Expandability, a very cool dual-mode input system, and a fair amount of built-in functionality make this a good choice for many users.

In many ways, this is the first PDA that truly deserves the name: it's inexpensive enough and flexible enough to have the potential to become a mass-market success, despite the flaws listed above. It's unfortunate that they felt the need to protect the 200LX by dumbing down the OmniGo; again, the open architecture could be this machine's saving grace.

There is much more to say about the OmniGo, but I have no more space this month. So, next time I will talk about OmniGo accessories, add-ons, and third-party software. ■

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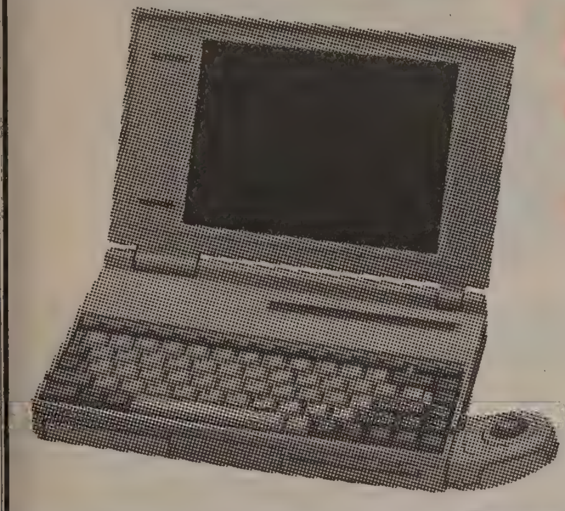

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A Nifty New Note Taker

Does Info Select's Upgrade Path Lead To A Better Program Or Down The Slippery Path Of Too Many Bells And Whistles?

Over the years, a small company named Micro Logic has been quietly and slowly making inroads on the personal information management market. It began many years ago with an MS-DOS program called Tornado Notes, which evolved into Info Select under Windows.

While both Tornado Notes and Info Select were deservedly standard equipment on all of my computers, I grew worried when Info Select v3 was first announced. Quite frankly, I was skeptical that by adding too many bells and whistles they would only damage something that already worked so well.

One of the problems facing software developers is how to improve a successful product without overimproving it. Is there an optimum that can't be exceeded? If there is, software developers have a real problem, because so much revenue comes from introducing upgrades. To eliminate this market is to severely cut revenues. The challenge is to update a product without losing the features that made it great in the first place. In the past, I have commented upon software that has lost the magic. My fear, upon first inspection, was that Info Select had fallen into this trap. Happily, I am pleased to report, that is not the case.

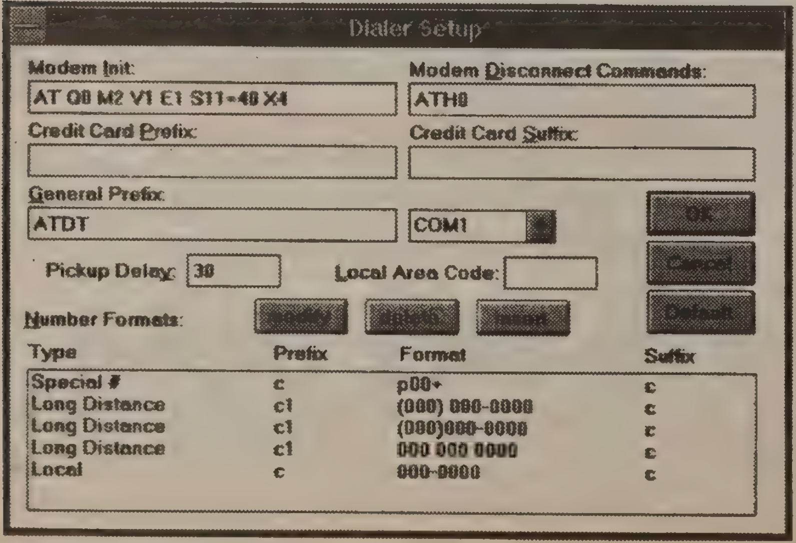
If you are used to the older version, you can use the new version in pretty much the same way. As you become familiar with the new version, you will discover improvements that make life easier. The team at Micro Logic has thought long and hard about how to improve the product in subtle ways. Rather than compare the old and new versions, I will talk about the new version and advise the faithful that it is worthwhile getting the upgraded version. None of the magic is lost, and v3 adds new power if you want it.

At its core, Info Select is a tool that organizes bits of information. While it is advertised more like a tool that will do everything from write letters to create databases, it is in fact best suited to keeping random information easily accessible. But I have to admit that it does do all of the other tasks efficiently, and I know of people who do use this as a single do-all product. It takes a short time to begin to use Info Select, and you will learn more tricks as you go along. Indeed, it will do all of the things that the manufacturers boast. But its strength is its power to retrieve information.

The program's online tutorial and accompanying documentation will have you using it within minutes. It is organized around notes. Each note becomes a line in the selector, which lives on the left side of the screen. You can glance down the left side of the screen and pick the one you want.

If you get too many notes for easy browsing,

The challenge is to update a product without losing the features that made it great in the first place.



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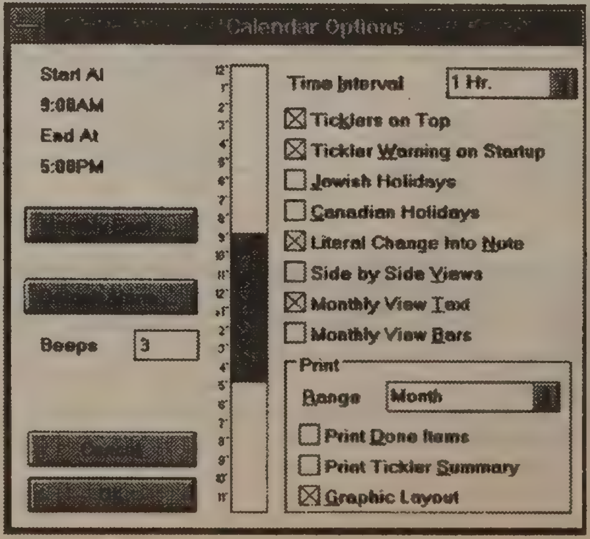

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Left to right: Info Select's Dialer Setup screen and Calendar Options screen.

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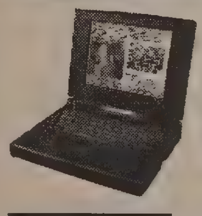

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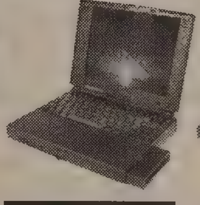

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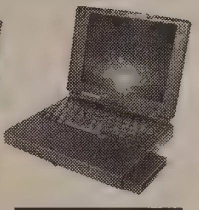

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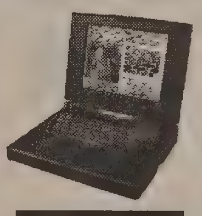

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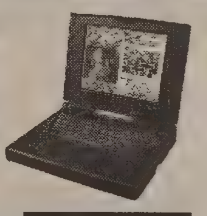

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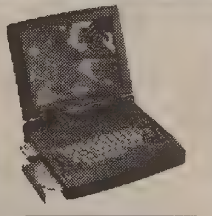

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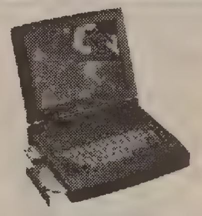

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you can divide them into different categories. In my case, for example, my categories are organized into general information, products I have reviewed, and listings of people I could contact for various kinds of household maintenance. Some of this, especially this last category, is information I need infrequently but still need nonetheless. Info Select gives me an easy way to find it when that household emergency happens.

The program is set up to do instant searches for any string of letters you type. This means that if I type in "Micro" it will give me all listings with that string, including Microsoft and Micro Logic. As I enter more letters, it reduces the number of notes that meet my criteria. When I hit enter, it will bring up these notes, with the listings on the left so I can easily find the one I want. One of my favorite features is that I do not have to create fields when I am entering the notes. The search filter will find all relevant entries.

But there's lots more. If you have phone numbers in the notes, a click of the mouse will dial for you if you have a modem. The dialer is sophisticated. It knows to drop the area code if it is a local call. It can also put in prefixes to get an outside line and longer strings for making credit card calls. It's great to call up a note, have Info Select dial, and then make notes as you chat on the phone. Hit a couple of keys and the date is inserted. This is an ideal way to keep track of many contacts.

Version 3 provides an efficient calendar for appointments and to remind you at the beginning of the day what's next. A tickler feature lets you insert reminders far into the future so you will be reminded on the appropriate day when you turn on your computer and look at Info Select. A database lets you store all kinds of records and a mail merge function will insert this data into notes as they are printed. I recommend that all comupters' users have Info Select come up automatically each time they turn on their machine.

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Info Select v3, $149.95
Micro Logic
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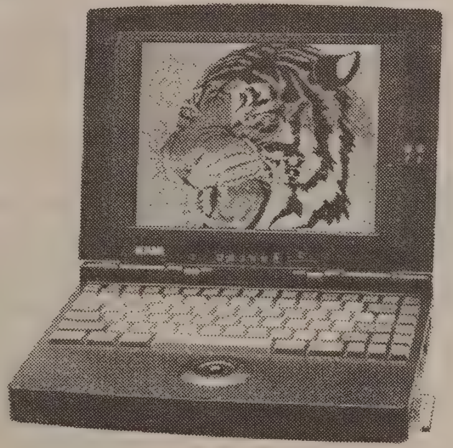

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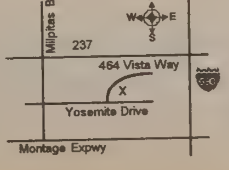


Laptops *continued...*

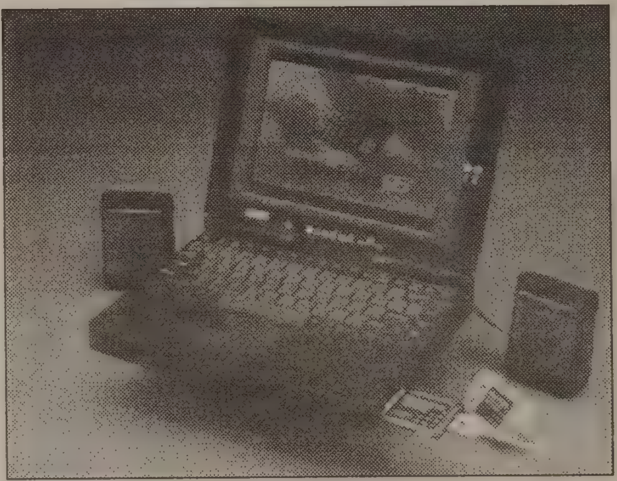
Computer Of The Month:

Kiwi OpenNote

One of the most frequently asked questions is how good are portables once you move beyond the first and second tier of manufacturers? One problem is that unlike desktop machines, portables are not assembled from interchangeable parts. This means that you have to return the machine to the manufacturer for repairs and upgrades. I recently learned of a new company that offers a product that partially bypasses these problems. Kiwi offers an entry-level machine with lots of options and the ability to take generic CPUs, memory chips, and hard drives.

The Kiwi OpenNote is running a Cyrix 5x86. This chip is roughly equivalent to an Intel Pentium running at 75MHz. The Kiwi can take anything from an Intel DX33 up to a DX4-120, and works with chips from Intel, AMD, or Cyrix. My system had 16MB of RAM, but the great thing about the machine is that it can take any RAM configuration from 4MB up to 32MB using standard SIMM memory modules. Once again, this means you can upgrade your machine without having to purchase from Kiwi. Likewise, the OpenNote I used came with a 540MB hard drive, but any 2.5" hard drive that is 0.5" thick will work. As larger drives become necessary and less expensive, you can easily upgrade.

All of this is nice, but how about the basic machine itself? It is a handy 8.5" x 11" x 1.75" and weighs about 6lbs. The keyboard is well designed and feels good to me. It comes with an adapter to accommodate any standard keyboard plug. Kiwi tells me that its next model will have the special Microsoft Windows keys. For now, this is the only company that will offer this keyboard feature on its portables. Rather than a trackball, the OpenNote has a touchpad. Simply touch the pad with your finger and drag the pointer wherever you want. It works great. Instead of clicking the left mouse button, just tap the touchpad once or twice. You can attach a mouse through the serial port and use both the touchpad and mouse interchangeably.



Kiwi offers an entry-level machine with lots of options and the ability to take generic CPUs, memory chips, and hard drives.

The color display measures 10.4" diagonally and offers a clear image. If you want, an external monitor can be attached through the video port on the back. To access the external monitor, it is necessary to run a simple program that tells the computer that an external monitor is attached. To switch back, run a different program. It is simple, but I would prefer a toggle arrangement or some other setup. This seems a bit cumbersome if you switch back and forth frequently.

The Kiwi comes with a Type II PCMCIA slot and the necessary software to run most PCMCIA devices. Lots of people are using PCMCIA fax/modems, but the OpenNote has a built-in 14.4kbps fax/modem. Cheyenne BitWare software is included. This frees up this slot for a network card or a CD-ROM drive. Sound capability is built into the system. There are the standard serial and parallel ports.

Both NiCd and nickel metal hydride battery packs are available. Under optimal conditions, the battery pack will operate for up to three hours.

The warranty covers parts and labor for the first year and parts for the next two years. You ship the machine back to the company's Santa Clara headquarters. After the warranty expires, you will pay for parts, but labor is guaranteed not to exceed $65. This protects you, as many companies charge outrageous prices for out-of-warranty service.

Kiwi is a new company with a good design concept. While I have a few criticisms, I generally like this portable and would not hesitate to buy one. The company is selling the unit through a number of channels, so it should not be hard to find. It is hard to get more computer for the money. The OpenNote I evaluated, with a top-of-the-line configuration, lists for $2795. Entry-level models go for much less. ■

RESOURCES:

Kiwi OpenNote, $2795
Kiwi Computer, Inc.
2314 Walsh Ave.
Santa Clara, CA 95051
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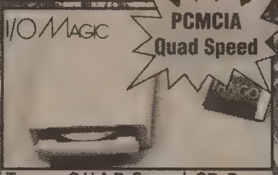

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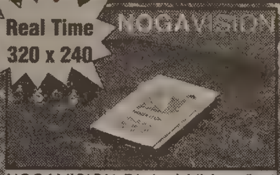

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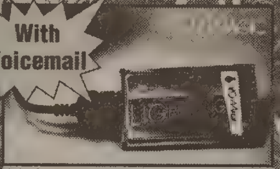

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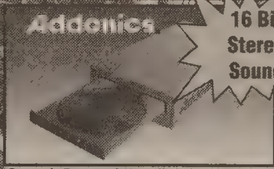

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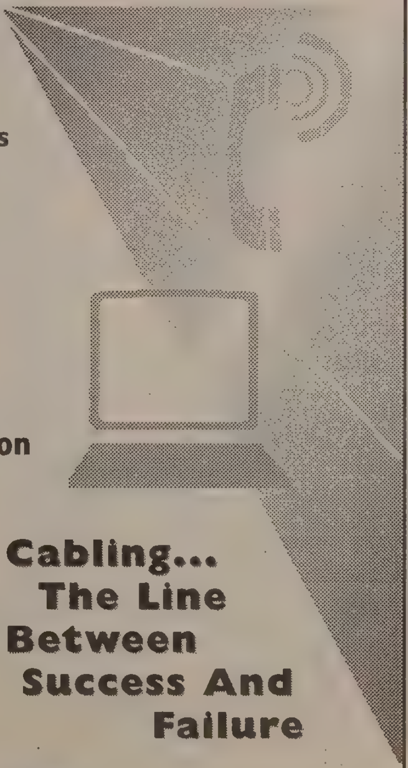

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Telecommuters Ready To Take Over?

Time To Get Aggressive

I keep getting phone calls, email, and letters from people wondering how they can find work with an organization that's receptive to telecommuting. As always, I keep telling them that, in my experience, this is not a fruitful way to find a job. In fact, things have recently changed enough to make this a classic case of attacking the problem from the wrong direction.

A few years ago, people interested in telecommuting had to fight an uphill battle to win permission to participate in a "pilot program," or to telecommute on a short-term trial basis. Many people were afraid even to bring up the subject, for fear they'd give supervisors a reason to question their loyalty or willingness to work.

Today, hundreds of employers are recognizing the financial benefits of off-loading their employees. In fairly large numbers they are sending whole units and departments full of employees home—or at least out of the office—to accomplish their work.

The time seems ripe for a change of tactics. We've moved from formal pilot to guerrilla telecommuting, where individuals made separate telecommuting contracts with their direct supervisor. Today, we can move closer to more aggressive lobbying for wholesale telecommuting freedom. People who offer their employers something of value—such as solid productivity, a track record of excellence, or a skill set that's not easily replaceable—can stand up and argue the positive benefits of telecommuting for themselves and for the organization as a whole.

To refresh your memory, these positive benefits can be broadly described as:

Happier families
Higher satisfaction, morale, and loyalty
Overall higher productivity
Less time lost to illness and other problems
Easier recruiting and longer employee retention
Overall lower employment costs
Less environmental pollution, traffic, and drain on scarce resources

As you can see, telecommuters and those who want to be telecommuters need not be ashamed of asking for telecommuting privileges. They don't cost the employer extra money. Telecommuting is not a way of getting something for nothing, or delivering less value than a conventional employee. In fact, it's the opposite: the telecommuter is saving the employer money, giving something for nothing, and delivering more value than a conventional employee.

So let's see who'll be the first to start saying so.

Recent Survey Offers Mixed Acceptance

In a recent survey conducted by the research arm of Creamer Dickson Basford, an international public relations firm, respondents vividly demonstrated that different people find different reasons for wanting to telecommute.

Respondents were asked to select the three advantages they wanted the most—and the three disadvantages they disliked the most—from prepared lists describing a wide range of expected consequences of telecommuting.

The most frequently cited advantages of telecommuting were "I would have more flexibility" and "I could set my own hours." When you look at responses broken down by age, however, the younger respondents (eighteen to twenty-four) overwhelmingly liked the ability to set their own work hours, while the older respondents considered this advantage far less important.

There were also significant gender differences. For example, men favored "I wouldn't have to commute" more strongly than did women, but women favored "I could save the cost of child care" more strongly than did men.

Among disadvantages, the insurmountable "My job could not be done at home" came in fourth, behind such well-understood issues as: "I would not have all the equipment and supplies I need," "I would not have access to the information and records I need," and "It would be harder to separate my work time from my personal time."

Interestingly, only 1% of respondents claimed "I would miss the office gossip and politics" as one of their top three disadvantages of telecommuting.

When asked what they would trade to gain the privilege of telecommuting, 38% offered to

Telecommutersandthosewhowanttobe telecommutersneednotbeashamedofasking fortelecommutingprivileges.

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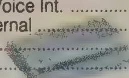

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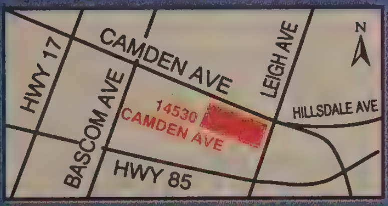

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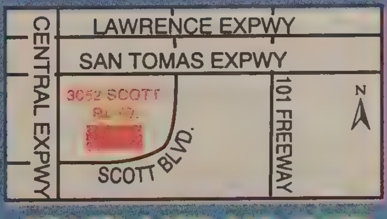

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give up a portion of their sick day allowance, 36% offered to forego some personal days, and 28% said they would be willing to give up their opportunities to earn overtime pay.

Only 7% said they would accept a lower base salary in return for the right to telecommute.

Dear "Uncle Telecommuter":

My daughter is nine months old, and I have been working part-time from home (and loving it!) for the last eight months. Today my boss called and told me he wants me to come back to the office full-time.

It's a great opportunity for me: a big promotion and a nice raise. I have found two reliable day-care workers, so I hope I won't have a problem there. But the idea of leaving home for a commute to the office, away from my baby girl, is making me really unhappy! My husband thinks it'll be a big strain, but says he'll go along with whatever I decide.

Logically, it makes sense for me to go back to commuting and full-time work. But emotionally, I'd rather keep working from home. What can I do?

Signed, Distraught

Dear Distraught:

Don't worry. You only think it's logical to go back to commuting and full-time work. When you consider all the factors, I think you'll reach a different conclusion.

For example, how far will your raise go when you're paying for forty or more hours of child-care-while-you-work every week, plus additional child-care for however many hours you spend each week commuting to and from work. Are we talking fifty hours? sixty hours? And don't forget: some weeks you'll have larger workloads and will need even more child-care.

What about the cost of commuting? This includes automobile expenses often estimated at $75 per mile per year, plus extra dry cleaning and laundry, lunches at restaurants instead of at the kitchen table, and the heavier expense of take-out meals you'll buy for family dinners because you're too tired from work to prepare better, less expensive foods at home!

None of this counts the psychological and emotional "cost" of having your child raised by a child-care worker without your presence or direct supervision. Or the cost of you missing so many of your baby's growth milestones because you're out of the house on the job.

If you present your boss with the case in favor of letting you work from home a good portion of the work week, you might be surprised by his or her receptivity. After all, he or she has a family, too. And the evidence for increased productivity by telecommuters, lower support costs for their employers, higher morale, lower turnover, and minimal disruption of the work day can be very persuasive.

Teleworking from home can get hectic, of course. But you may well feel it is worthwhile to sign on for the full-time job without giving up the quality time you spend with your baby. Working from home, you can put in at least some—perhaps many—of your hours in the early morning, during her naps, and after her bedtime.

Good luck from "Uncle Telecommuter."

"Ziosk"

In Japanese airports, you can find tiny hotel rooms no bigger than a sleeping berth on an overnight train. On San Francisco and Paris sidewalks you can find automated "toilet booths" that clean themselves after every usage. Soon, if things go according to the plans of Ziosk, Inc., of St. Petersburg, FL, you may be able to rent a tiny "portable office" by the hour whenever and wherever you need one.

The first of these "Ziosks" began operation in 1992. Now more than twelve thousand people have rented time in a dozen of these self-contained telecommuting stations located in such widely separated places as the Minneapolis-St. Paul Airport, Chicago's Union Railroad Station, and the Thunder Bay Airport in Ontario (Canada).

Small enough to be installed in areas that can't be used for conventional retail or concessionaire space, the Ziosks are completely portable. The only external hook-ups are for power and telephone. If the Ziosk doesn't produce enough income, or there's construction or remodeling slated nearby, it's easy to trundle the entire unit in one piece to a different location.

Before you walk in, sit down, and start working, you simply use the phone attached to the outside of the Ziosk to contact the company. Once you register with them and provide your charge card number, the company gives you a security code that lets you lock and unlock the door all during the time you're using the Ziosk.

So far, these walk-in offices have not been universally successful. Several Ziosks were installed in San Jose's airport, for example, and others in the Miami airport. But demand was so low—probably because hotels were so abundant and layovers so rare—that the company removed these rooms within a year.

It now appears that the Ziosks work best when installed in "hub" airports and other terminals. People arrive there with anything from one to five hours of "dead time" before they can leave on the next leg of their journey. They don't have enough time to leave, but have too much time to just throw it away.

Some people can use airport clubs for the same sort of work "on-the-fly." But many of these clubs are noisy, crowded, and uncomfortable. Ziosks are entirely private, which makes them perfect for work that requires quiet and concentration—writing, analyzing, interviewing, telephone contact, and so forth.

You can reserve a booth in advance, or you can rent one by the hour, extending your time as you need to. The main difficulty in extending your time is logistical: your Ziosk may have been reserved for use by someone else. Also, you may be interrupted by people who have shown up to clean the facility as soon as you're through with it.

The largest Ziosk measures 7' by 9', and provides a desk and chair, a couch, a clock radio, a fax, a phone, and a TV with VCR. People can use this size room for just $12.95. After the first hour, the cost drops to $6.98 per hour, plus tax.

The smallest Ziosk is just 3' by 7'. It has all the same equipment except for the couch, and costs only $5.95 per hour, plus tax.

Although you can probably accomplish enough during an hour or two inside the Ziosk to more than pay these rates, if you start using a Ziosk fairly frequently you can negotiate with the company for an even lower discount rate.

The number of telecommuters doubled in the North Bay region (north of San Francisco) between 1985 and 1995.

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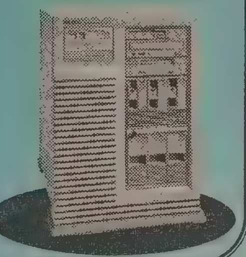

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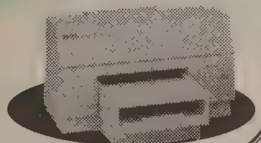

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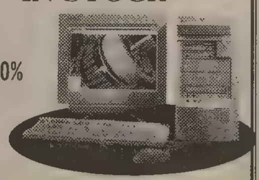

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Telecommuting Faces Capacity Shortfalls

One of the most encouraging statistics I've come across recently is that telecommuting is growing. For example, the number of telecommuters doubled in the North Bay region (north of San Francisco) between 1985 and 1995. In addition, the Independent Workers Association, located in Novato, California, estimates that approximately 125,000 people operate a home-based business in the Bay Area, and thus no longer commute at all.

Companies north of San Francisco have been unusually receptive to telecommuting, in part because of jammed freeways, and in part because the technology now allows more and different kinds of work to be done effectively from outside the central office. But the trend is in place throughout the nation and the world. With more telecommuters demanding more telephone usage from a relatively fixed base of capacity, however, the North Bay region is just one of many areas that may face a head-on collision as it makes greater use of the information superhighway.

Here's why: As soon as a telecommuter utilizes the telephone for computer communications as well as voice and fax, usage on that line begins to exceed the average 10% usage rate that Pacific Bell and other regional Bell operating companies count on to keep their networks serviced.

In other words, your telephone company is presently able to provide dial tone to everyone only if everyone uses the phone only a small fraction of the day. Since telecommuters use the phone a much larger fraction of the day, one telecommuting office in a home requires as much network capacity as three, four, or even more homes where no one is working. It won't take many more telecommuters to overwhelm the system.

But remedies are in sight.

Decisions are being made right now about where and how to install fiber optic lines that can carry extremely large volumes of digital data: voice, fax, computer files, audio, and video—often all at once! Pacific Bell, for example, will be installing thousands of miles of fiber optic lines in the very near future, but may not fully wire the San Francisco "greater metropolitan area" until well into the next century.

The same situation exists in other parts of the country serviced by other regional Bell operating companies. Until they increase capacity to meet the new pattern of vastly increased telephone usage at home, there is a chance telephone capacity will not be sufficient to meet the increased demand for telephone lines from all the new telecommuters joining the party.

As always, I'll keep you posted on this and other developments that affect the positive and negative sides of being a telecommuter. ■

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OS/2 • BY FABIAN PASCAL

Recovering Recovery

In the April issue last year I described one way of recovering the OS/2 system or parts thereof, using an OS/2 boot diskette, BackMaster software, and an Iomega Parallel Port II 250MB QIC tape drive.

I dislike tape: it is slow, fussy, and somewhat limiting in its being a "linear" storage medium. I've always been on the lookout for backup software that would support faster removable media, such as my Bernoulli 150MB Transportable. But the few OS/2 available backup programs tend to support only tape drives.

One which does support the Bernoulli is FastBack Plus for OS/2. I had received a review copy early on, as soon as v1.00 came out, but at the time I had some reservations. By the time Symantec issued v1.01 as a fix I had already switched to BackMaster and tape.

Several things happened since that article. First, for no obvious reasons, BackMaster started failing to complete the backup or verify process. The slowness of tape became even more acute—formatting and verifying a 250MB tape takes two hours, and it's not exactly pleasant to get an error close to the end of the process. It is very risky to work without a backup/recovery net (with OS/2 in general and the kind of work I do in particular); when a solution to the failures did not materialize, I decided to give FastBack a second look.

(FastBack 1.02, recently released to fix incompatibility with Warp, got mixed reaction from users—it works for some and not for others, depending on their specific configuration. While in general it has worked for me, I did run into some bugs and problems. Moreover, it appears that, having refocused on Windows 95, the company's responsiveness to problems seems to have suffered. More of this in a future column, but *caveat emptor*.)

From previous articles you're probably familiar with the saga of my system upgrade and the quirks I ran into with motherboards and the SCSI subsystem. After I'd tried three motherboards and three Adaptec and a DPT SCSI controllers (two of which failed), a second, narrow DPT controller eliminated the crashes and file corruption, but lost me access to the HP ScanJet 3C scanner. I replaced the ScanJet with a nifty little Fujitsu ScanPartner Jr. which, unlike the 3C, the DPT controller likes. (However, this meant giving up color and a few scanning packages I was going to review with the ScanJet, which left me with the only OS/2 software supporting the Fujitsu, UniteLite; more of this in a next column.)

But with the new hardware configuration, my trusted OS/2 boot diskette described in April stopped working. Crash recovery of the OS/2 system partition (to reiterate: it's a very good idea to have a separate partition just for the OS/2 system) requires a diskette boot; to test FastBack I had to fix the boot diskette first.

This month I'll describe the fix and a nice utility to recover your desktop when it, rather than the whole system partition, gets corrupted. I will review FastBack and its crash recovery facility in a future column.

OS/2 Boot Diskette Revisited

OS/2 backup/restore programs can produce diskettes that allow you to boot OS/2 and run their crash recovery facility, or they may use the OS/2 built-in facility to generate the diskettes. In either case two diskettes are required to boot.

One boot diskette is more convenient—particularly since you may also use it to run CHKDSK on drives, when necessary—so I opted for fixing my old boot diskette. But if you don't want to bother with creating the boot diskette manually, you can use the diskettes generated by the programs. (In fact, I recommend having both available as a precaution.)

The file content of the boot diskette described in April remains the same. For consistency I replicated on the boot diskette the same directory structure within which the relevant system files normally reside on the hard disk. That is, I created the same directories on the diskette, then copied the files to them accordingly.

Five directories are involved—the root and four subdirectories (Listing 1).

Listing 1

```
Directory A:\
-----------------

OS2BOOT         \
OS2DUMP         |
OS2KRNL         |
OS2LDR          | (read-only, hidden system)
OS2LDR.MSG      |
OS2LOGO         |
OS2VER          /
WP ROOT. SF     \
EA DATA. SF     / (hidden system files created by OS2)
CONFIG   SYS
COUNTRY  SYS     (from \OS2\SYSTEM)
DEV002   MSG     (from \OS2\SYSTEM)
CIRRUSSC SYS     (scanner driver)
FASTBACK SYS     (FastBack+ driver)
OS2              <DIR>

Directory A:\OS2
--------------------

CMD      EXE
SCREEN01 SYS     (in \OS2\BOOT too)
HPFS     IFS     (optional, from \OS2\BOOT)
BOOT             <DIR>
DLL              <DIR>

Directory A:\OS2\BOOT
-------------------------

DPT20XX  ADD     (SCSI controller driver)
CLOCK01  SYS
IBM1FLPY ADD
IBMINT13 I13
IBMKBD   SYS
KBDBASE  SYS
OS2DASD  DMD
OS2SCSI  DMD
PRINT01  SYS
RESOURCE SYS
SCREEN01 SYS

Directory A:\OS2\DLL
------------------------

BKSCALLS DLL
BMSCALLS DLL
BVHINIT  DLL
BVSCALLS DLL
DOSCALL1 DLL
KBDCALLS DLL
MOUCALLS DLL
MSG      DLL
NAMPIPES DLL
NLS      DLL
NPXEMLTR DLL
OS2CHAR  DLL
QUECALLS DLL
SESMGR   DLL
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```

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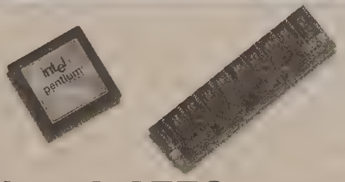

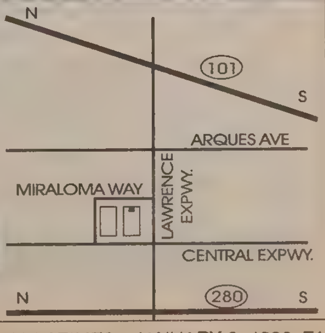

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OS/2 *continued...*

However, some quirks violate the principle. Two of the required system files—COUNTRY.SYS and DEV002.MSG—normally reside in the \OS2\SYSTEM subdirectory, but the boot facility would abort if they were in that directory on diskette. Putting them in the root directory resolved the problem.

For some reason SCREEN01.SYS resides in both \OS2 and \OS2\BOOT, so I replicated this on the diskette.

With the new DPT PCI/SCSI controller I found that, with the Fujitsu scanner on the SCSI bus, the booting process would not work unless the device driver for the scanner was also loaded. So it went to the root directory too.

To use a crash recovery facility after you boot, any device drivers that come with the backup/restore program—in this case, FASTBACK.SYS—must also be loaded.

You need the HPFS file system only if you have HPFS partitions on your system.

Note: You have the option of copying the drivers for your CD-ROM drive to A:\OS2\BOOT if you want access to it (in most cases you won't—the listing shows the statements for my Chinon IDE internal drive REMMed out). If you have any IDE drives that use the ATAPI interface and aren't recognized by OS/2, revised drivers for Warp are available on online systems (see Listing 2). If you have a motherboard using the Intel Triton chipset, you may need these, because they also fix some flaws in its IDE implementation. There are also tests for these flaws available for downloading.

Finally, the special version of the CONFIG.SYS on the boot diskette must also reside in the root, of course (see Listing 2). If you have different devices, you can substitute their equivalent drivers.

Listing 1 also shows the content of the four subdirectories under the root. Note that the file SCREEN01.SYS (or, for IBM systems, SCREEN02.SYS) resides in both the \OS2\BOOT and \OS2 directories. All the other files reside in their normal OS/2 directories.

Listing 2

```
basedev=dpt20xx.add
BASEDEV=OS2SCSI.DMD
BASEDEV=OS2DASD.DMD              (revised IBM driver)
BASEDEV=IBM1FLPY.ADD
BASEDEV=PRINT01.SYS /irq
BASEDEV=IBMKBD.SYS

IFS=\OS2\HPFS.IFS /CACHE:1028 /CRECL:64

rem basedev=ibms1506.add           (revised IBM driver)
rem BASEDEV=ibmidecd.flt           (revised IBM driver)
rem DEVICE=\OS2\BOOT\OS2CDROM.DMD /Q (revised IBM dri-
ver)
rem IFS=\OS2\BOOT\CDFS.IFS /Q
rem DEVICE=\OS2\BOOT\VCDROM.SYS

SET OS2_SHELL=CMD.EXE
PROTSHELL=CMD.EXE
LIBPATH=.;\;\OS2;\OS2\DLL;
SET PATH=\;\OS2;
SET DPATH=\;\OS2;
SET KEYS=ON
BUFFERS=30
IOPL=YES
MEMMAN=NOSWAP
PAUSEONERROR=YES
DISKCACHE=64,LW
PROTECTONLY=YES

device=\cirrussc.sys
device=\fastback.sys
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19	9:00 - 12:00	Managing Applications with NetWare Directory Services
24	9:00 - 12:00	Departmental NDS Administration
26	9:00 - 12:00	How to Integrate Window 95 in Your NetWare Network
30	9:00 - 12:00	The Internet for Lawyers
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10	9:00 - 12:00	NW Small Business Bundle
16	9:00 - 12:00	LAN Basics
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11	9:00 - 12:00	NetWare SMP
16	9:00 - 12:00	LAN Basics
17	9:00 - 12:00	NDS Advanced
18	9:00 - 12:00	Novell's GroupWare Business Tools
24	9:00 - 12:00	NetWare as an Internet Web Server
31	9:00 - 12:00	Choosing the Right Network Operating System

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JAN.	TIME	SEMINAR
24	9:00 - 12:00	LAN Basics
24	1:00 - 4:00	NetWare 4 SMP - Database and Networking Scalability
25	9:00 - 12:00	NetWare Web server
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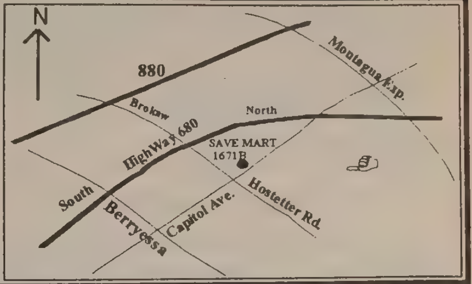

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486DX-33/256 VLB INTEL	1,088

SYSTEM CONFIGURATION

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- 8 MB RAM installed
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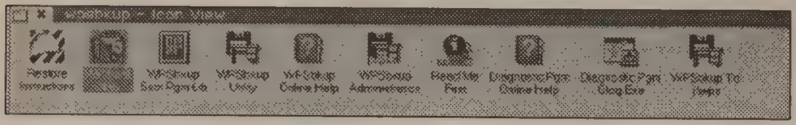
OS/2 *continued...*

Fig. 1



With this slightly revised configuration the boot diskette worked again.

Desktop Recovery

As noted, when things go awry booting OS/2, the problem may be just a corrupted desktop; in that case you don't need crash recovery of the whole OS/2 system partition. There are several shareware and commercial utilities that will back up and restore only the desktop (e.g. UniMaint, mentioned in a previous column), but the one I like most is WPSBackup. The latest version is ever nicer and is highly recommended.

After you install it, you get the folder in Figure 1. You configure your backup from the WPSBkup Administration utility, shown in Figure 2. It has an OS/2 notebook setting style and is WPS-aware—right-clicking on the empty area pops up menus.

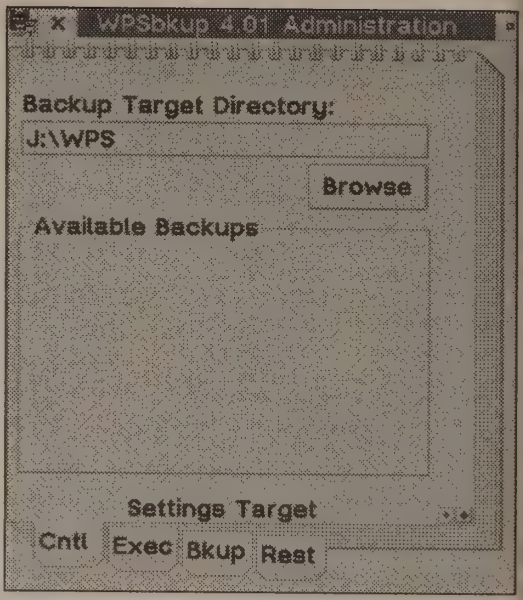
Using the Browse button on the Cntl page you select the path where you want backups to reside. The Bkup page allows you to set the desirable behavior of the backup process, the number of generations you want to keep, and any files, other than the desktop, that you want to include in the backup (e.g. the CONFIG.SYS and AUTOEXEC.BAT files). On the Rest page you set the behavior of the restore process and whether you want the additional files to be restored too. Once you've done that, from the Exec page you generate a Run Icon of the backup process (seen in the folder in Figure 1) and set its appearance while it executes. You can then put its shadow on the desktop; when you click on it, it will back up your desktop, and any other files you specified, in just seconds.

To restore the desktop from a backup, you boot OS/2; when the little white OS/2 rectangle appears on the upper left corner of the screen, you press Alt+F1. The resulting screen allows you to request a command line (by pressing C); when you get it, you switch to the backup directory and type:

WPSREST drive:

where the drive is the letter of the partition in which your OS/2 system resides. The restore program will allow you to change some parameters on the fly (e.g. which backup generation you want restored and whether the additional files should be restored too) and then, also in seconds, will execute the restore and prompt you to reboot. If you were careful and did not back up bad desktops, you will be up and running.

Fig. 2



Backup Target Directory: J:\WPS

Of course, any changes made to the desktop since the backup from which you restore will have to be redone manually. If new software was installed since then, some may have to be reinstalled. Therefore, with such an easy and fast utility, you should make frequent backups; certainly after any desktop changes that you don't want to have to redo manually. It is also a good idea to use a utility such as UniMaint to clean and fix the .INI files on a regular basis (to avoid restores) or prior to backups (to avoid backing up .INI files cluttered with obsolete information). ■

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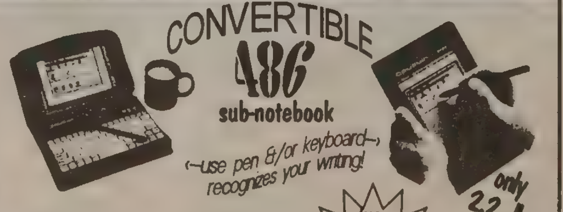

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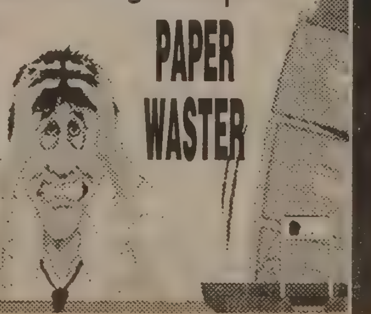

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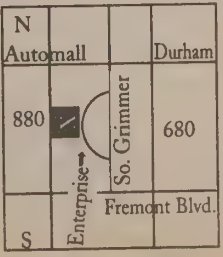

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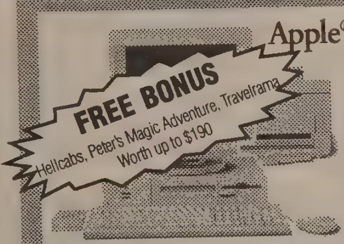
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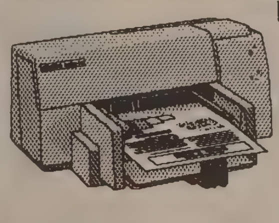

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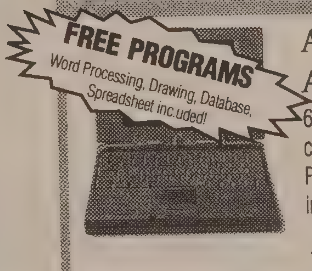
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SMALL OFFICE/HOME OFFICE • BY BIRRELL WALSH

New Year's Resolutions—That Might Just Work

Finding Your Mission And What Matters...And Pursuing Them

Every New Year we need to consider the most essential element in a small office. It is not the hardware nor the software. It is in fact you, the operator and steward of the whole business.

Thus the January Small Office/Home Office column will, this year as last, be about how we design our lives as independent or small-group workers. Last year we talked about the space we work in. This year we look at purpose.

I have found that no matter how busy I am with three parallel careers, I must take time every so often to think about where I am going, why I am going there, and how it is all progressing.

When we worked in large offices, we had those around us to provide a consensus. We left the corporate world, or were tossed out, or we created parallel careers. We ended up with more autonomy than we may have been used to while we were working in a corporate environment. We lost the supervisor who (for better or worse) gave us an ongoing check on what we were doing. At the same time we severed ourselves from the community of water-cooler peers—the fellow workers who kept us informed how "everyone" was viewing the day's events.

Without the feedback of peers and superiors, we find that we must direct ourselves.

Who Consults With The Consultants?

But if we are independents, on our own, how do we find wise counsel?

I came to respect the work of Utah-based author Stephen Covey through his *The Seven Habits of Highly Effective People.* His work has all the marks of the competence and character he proposes to teach us.

This year I got a copy of his more recent book, *First Things First,* written with A. Roger Merrill and Rebecca R. Merrill. It is a book about Time Management, yes. But that is not all.

What Is Important, And How Do You Put It First?

Mr. Covey identifies the predicament of the person who is already working as hard as possible, but still does not seem to be experiencing heartfelt satisfaction.

The problem, he says, is that the person has fallen into an "urgency culture." That which is most pressing is that which is done first.

It is a culture which many corporations foster, and which many of us with independent businesses have unthinkingly made our own. If we are really busy, after all, we must be doing the right thing. We must be productive if we are exhausted. Put so baldly the idea is silly, but it is often the way we direct our lives.

Mr. Covey has an alternative to the exhaustion-is-virtue paradigm, and I think it works.

If I may summarize what he says in the 360 thoughtful pages of his latest book, the issue is to distinguish what is urgent from what is important. And the trick of a quality life is to give first crack at your schedule to the important.

Your Mission, Should You Decide To Accept...

The heart of Mr. Covey's work resides in the ideas of mission and oversight.

Finding a mission is not an afternoon's work, because it involves finding out not only what you care about—your own values—but also what your own inner guidance tells you, and how those fit with the roles you have accepted.

What sort of things might appear in a mission statement? I suspect that most people find that they have no clear idea of what their mission in life might be. They have not ever thought about it in a systematic way, and the question floors them. Mr. Covey and his coauthors encourage us to get on with finding out what it is we are here for.

The book includes an appendix which asks a number of useful questions that may begin the process. "What are the three or four most important things to me?" "What talents do I have that no one else really knows about?" "What quality-of-life results do I desire that are different from what I now have in this area?"

Those who have taken Mr. Covey's workshops and those of his trainers tend to come up with strongly moral value statements as their missions. And this is appropriate. The Covey approach is that we are quite incomplete alone. Working for ourselves alone is guaranteed to give us an unsatisfactory life.

> **If we are really busy, after all, we must be doing the right thing. We must be productive if we are exhausted. Put so baldly the idea is silly, but it is often the way we direct our lives.**

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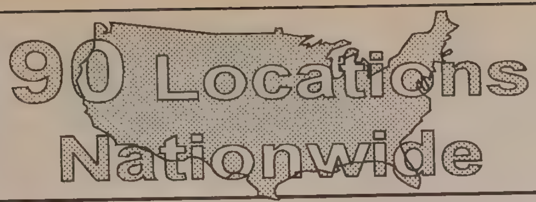

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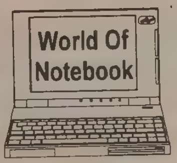

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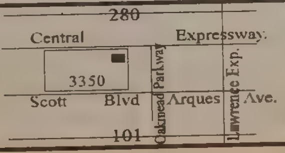

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"To be the person my children look to with pride when they say, 'This is my dad.' To be a person not willing to win at the cost of another's spirit."

"I will use my private victories unselfishly by trying to create value for others. The pursuit of excellence will determine the options I decide to exercise and the paths I choose to travel."

Most of us are not used to such open declarations of value. It takes us a while to gather the courage to make them for ourselves. My mission statement began with one sentence. Then another came. It seems to be evolving at a sentence a week. Your mileage may vary—but it is not a failure to not yet know your mission when you begin. There is room in the Covey process for evolving senses of mission.

When you have a sense, partial or full, of your mission, you need to ask as well what your roles are. You may find that they are many or few. You might divide one job into several roles. You might join several projects into a single role.

Personal and family and business and social roles all belong on this list. A person might find six or seven such roles: "Pharmacist," "Mother," "Partner and Lover," "Sales Manager," "Friend." Perhaps "Brother," "Fighter Pilot," "Ornithologist." Perhaps "Employee," "Writer," Student." Different people would divide the roles differently. To consider your roles and what to call them is to become conscious of them—we find that we make a list, and the "something is missing" feeling makes us go back and add "Actor with the Limelighters" or "Poet" or "Little League Coach."

What Is The Best Thing To Do?

When you have a list of roles, your task once a week is to ask yourself, "What one thing could I do that would most contribute to this role?"

Here as elsewhere I was surprised to find corporate trainer Mr. Covey telling us to trust our inner guidance, our conscience, to give us good answers. This is not only the conscience that says we are doing wrong, the socially trained conscience that reflects the possibly dubious opinions of our parents and forebears. It is the companion we all have, which (if we listen) can give us remarkably apropos advice.

Not that the advice we get will necessarily be comfortable. Far from it—what our conscience tells us can be scaldingly uncomfortable. But it does seem very much to the point.

Mr. Covey's trust in conscience is not only in the weekly planning process. He also recommends consulting it in the daily crises when we suddenly must make decisions and need to find the most appropriate things to do. "Integrity in the Moment of Choice," he calls it.

And it seems to work. It's easy to ignore, to rationalize away, or just "not to hear." But if listened to, it seems to have good sense and even humor. How embarrassing it is to recommend listening to an Invisible Friend right in the middle of a business and technology magazine! But—it seems to work.

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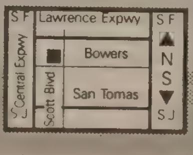

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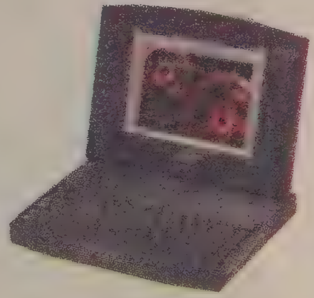

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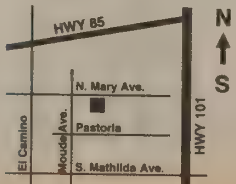

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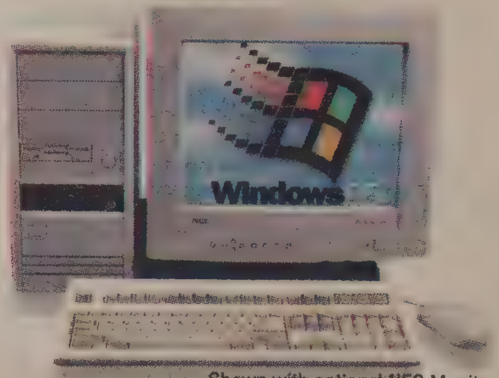

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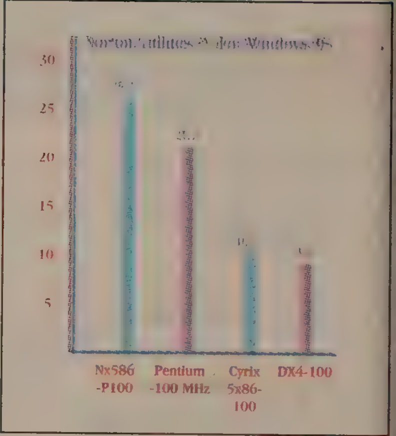

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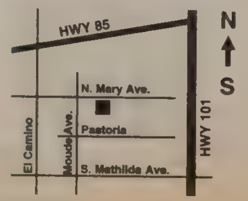

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Schedule The Important Thing First

When you have a sense of what to do, the issue is to bring it to concrete reality by acting on it. Here Mr. Covey has brought his unique contribution: he insists that the first things to go into our schedule should be those things that are important, but not urgent.

These are the things that will make us better in the long run. They are the self-improvement, the investment in relationships with other people, the time to strengthen our body and spirit. These are the things we neglect because we are booked solid.

When we take a longer-term view, the view of a lifetime mission or even of a weekly plan, these are the things that are important. They are the capital investments that will pay off next week or next year, and that in the end will make us glad we lived.

So, says the Covey team, schedule them *first.* Put them in your calendar before it fills up with this week's urgencies. And do them.

Collaboration

Mr. Covey has a lot to say about genuine collaboration and how to design practical "win-win" agreements with others. His view is that the best relationships are transformational rather than transactional. As with prioritization, he gives detailed steps to take, and tells stories of others' experiences.

You get the hunch, when listening to his tape or reading his book, that he did not start with this view. It seems that he came to it by experience. It is for that reason even more convincing when he urges that organizations and families make win-win agreements the fundamental structure for relationships.

There is also a sense, hard to pin down but pervasive, that the authors *are* in fact open. It is even stronger in *First Things First*

Covey insists that the first things to go into our schedule should be those things that are important, but not urgent, the things that will make us better in the long run. They are the self-improvement, the investment in relationships with other people, the time to strengthen our body and spirit. These are the things we neglect because we are booked solid.

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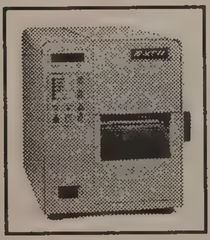

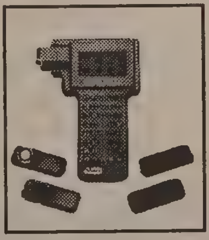

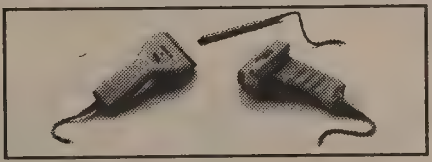

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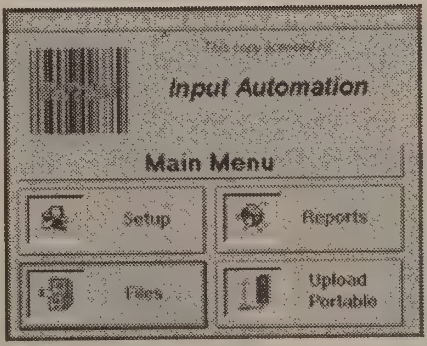

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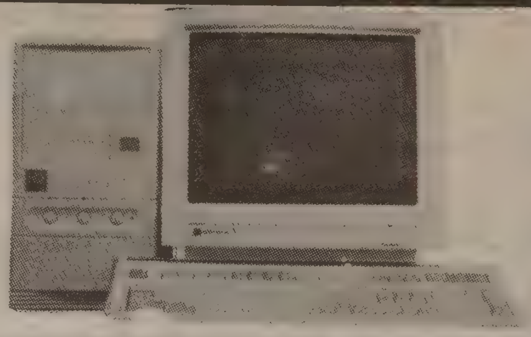

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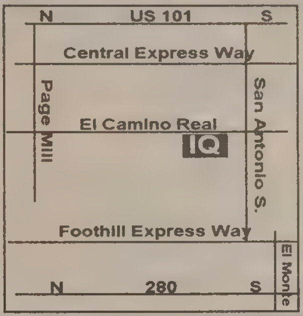

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than it was in *The Seven Habits of Highly Effective People.* They write like people who really have listened to others, listened carefully, and been changed by what they understood. It gives you the sense that they are respectful of those around them, and that they are still learning.

Putting It To Work

Mr. Covey and his coauthors (as I have summarized them here) may seem to be just some more in a long line of moralizers.

That is in one sense true. They are in the heritage of practical moralists. In the West this is part of our tradition. *First Things First* is in the lineage of Socrates' teacher Diotima of Mantinea, of the *Spiritual Exercises'* author Ignacio Loyola, and self-improving Benjamin Franklin. They all proposed detailed exercises for the conduct of life.

Mr. Covey and his collaborators have done it in our way, in accord with our culture as it stands, and that is the peculiar value of *First Things First.* We find it useful to have pictures, and the book has images we can use to remember the ideas. We find it useful to plan on paper. The book has specific forms to fill out to help us plan our weeks with our roles and mission in mind.

The Covey Leadership Center is a business, and they will quite happily sell you the book, videotapes, audiotapes, calendars built around these principles, attractive leather binders for the calendars, newsletters, seminars, and everything else you may want in order to become deeply involved.

It is not necessary to buy all the paraphernalia. I was able to transpose the principles into my favorite personal information manager with minimal effort. One could follow them with no special tools at all.

The Covey Center does make one offer you certainly might consider. That is their free catalogue. It not only tells you what you can buy, it includes a short workbook so you can try out the method and see what you think. ■

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Business Solutions continues on page 261

RESOURCES:

First Things First
Stephen R. Covey, A. Roger Merrill, and Rebecca R. Merrill

The Seven Habits of Highly Effective People
Stephen R. Covey

These Simon & Schuster books and (abridged) Simon & Schuster audiotapes are sold in most bookstores. They, and the free catalogue and workbook, are also available from The Covey Leadership Center
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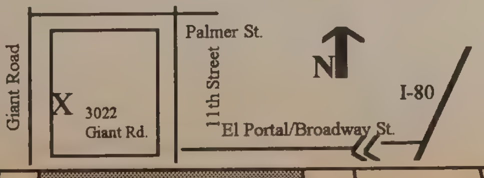

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INTERNET • BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

Congress Close To Internet Censorship

Act Now Or Live With The Consequences

It may have seemed that the danger of Internet censorship in the US had passed when Speaker Gingrich, Vice President Gore, and President Clinton spoke against the Senate's Communications Decency Act (CDA) of 1995, and the US House refused to approve that bill.

However, the House approved several bills, some better and some worse than the Senate's CDA. These are all in a conference committee of House and Senate members. That committee is expected to report back very soon, perhaps this week (early December 1995), and it appears to be favoring a CDA, and one worse than the Senate's.

Do something now, if you can (see below for what). After the conference committee reports back, there will still be a brief period to ask the House and Senate not to approve what it reports; even if they do, there's a brief period to ask President Clinton to veto it, but stopping it earlier will be easier.

Knowingly Indecent?

If you are against pornography, please read the bill before you conclude that it would either prevent the distribution of "obscene" material, or that it would do so without much broader effects.

Should we ban asphalt because roads can be used to reach stores that sell pornography? Should we close all libraries because they might contain books that children might see and that someone might consider indecent? Well, this bill would have similar effects on the Internet. If it becomes law, anyone who "knowingly" permits a minor to see anything considered "indecent" would be liable for it, and if convicted would be subject to a fine of up to $100,000 and up to two (or perhaps five) years in prison.

The term "knowingly" is not defined: a news story in the press might qualify as "knowledge" that "indecent" material existed on a system. The term "indecent" is not defined: a copy of *Huckleberry Finn* or the *Canterbury Tales* would very likely qualify.

These charges and penalties are applicable to each person involved: each and every person working for an Internet provider (or a school or a library with an Internet connection) could be charged.

The traditional defenses of claiming to be an enhanced service provider or a common carrier are explicitly prohibited.

This bill is specifically aimed at the Internet; traditional broadcast radio and television and cable television are explicitly excepted. The restrictions the bill would place on the Internet are much stricter than those currently in place on those traditional media. Radios and televisions are not required to have child-safe locks; ISPs would be.

The charges and penalties aren't restricted to providers or businesses, either; individuals would be equally liable for anything they posted to Usenet, put in a Web page, or sent in electronic mail. Actively sending something is not required, it merely has to be "made available" to be actionable. Limited distribution is not a defense, and no right of privacy of personal communications between adults is even mentioned. If someone steals your steamy love letters and makes them available where minors might conceivably see them, you could be liable.

The Bill

Don't believe us. Read the bill. Here is the latest version we've seen:

Section 1465 of Title 18, United States Code, is amended to punish distribution by computer of indecent material to minors by adding at the end the following:

Whoever knowingly communicates, transmits, or makes available for communication or transmission, in or effecting interstate or foreign commerce an indecent communication by computer to any person the communicator or transmitter believes has not attained the age of 18 years of age, knowing that such communication will be obtained by a person believed to be under 18 years of age, shall be fined under this title or imprisoned not more than five years, or both.

TITLE IV—OBSCENE, HARASSING, AND WRONGFUL UTILIZATION OF TELECOMMUNICATIONS FACILITY

Sec. 401. SHORT TITLE

This title may be cited as the "Communications Decency Act of 1995".

Sec. 402. OBSCENE OR HARASSING USE OF TELECOMMUNICATIONS FACILITIES UNDER THE COMMUNICATIONS ACT OF 1934

Section 223 (47 U.S.C. 223) is amended—

(1) by striking subsection (a) and inserting in lieu of [sic]:

"(a) Whoever—

"(1) in the District of Columbia or in interstate or foreign communications—

"(A) by means of telecommunications device knowingly—

"(i) makes, creates, or solicits, and

"(ii) initiates the transmission of, any comment, request, suggestion, proposal, image, or other communication which is obscene, lewd,

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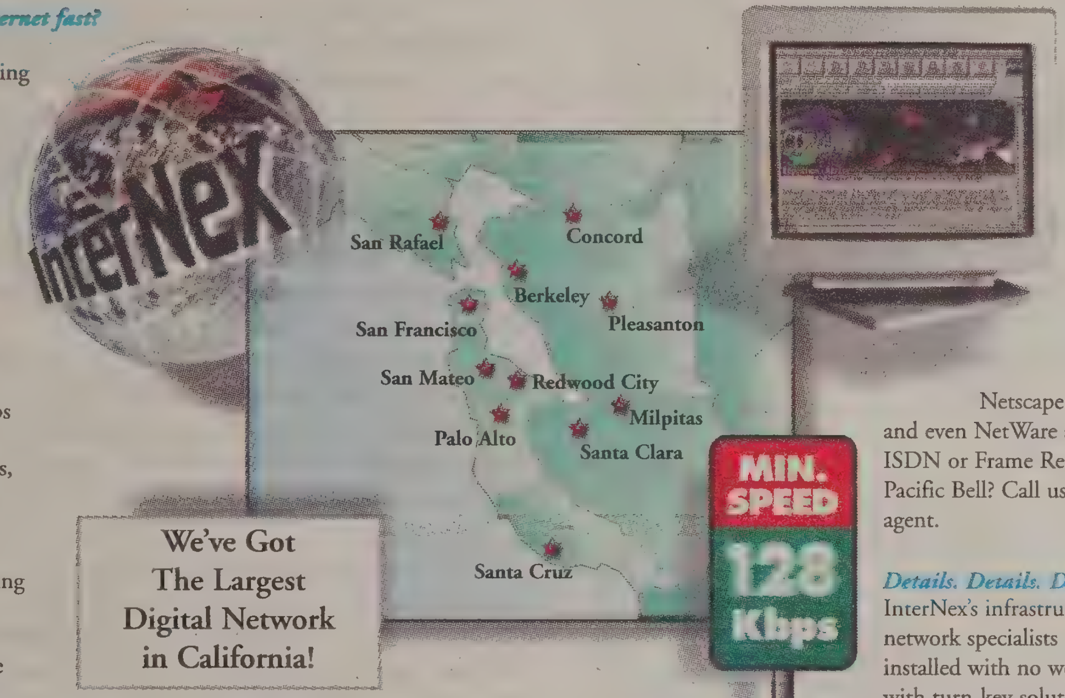

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lascivious, filthy, or indecent, with intent to annoy, abuse, threaten, or harass another person;

“(B) makes a telephone call or utilizes a telecommunications device, whether or not conversation or communication ensues, without disclosing his identity and with intent to annoy, abuse, threaten, or harass any person at the called number or who receives the communication;

“(C) makes or causes the telephone of another repeatedly or continuously to ring, with intent to harass any person at the called number; or

“(D) makes repeated telephone calls or repeatedly initiates communication with a telecommunications device, during which conversation or communication ensues, solely to harass any person at the called number or who receives the communication;

“(2) knowingly permits any telecommunications facility under his control to be used for any activity prohibited by paragraph (1) with the intent that it be used for such activity, shall be fined not more than $100,000 or imprisoned not more than two years, or both.”; and

(2) by adding at the end the following new subsections:

“(d) Whoever—

“(1) knowingly within the United States or in foreign communications with the United States by means of telecommunications device makes or makes available any indecent communication in any form including any comment, request, suggestion, proposal, or image, to any person under 18 years of age regardless of whether the maker of such communication placed the call or initiated the communication; or

“(2) knowingly permits any telecommunications facility under such person's control to be used for an activity prohibited by paragraph (1) with the intent that it be used for such activity, shall be fined not more than $100,000 or imprisoned not more than two years or both.

“(e) Defenses to subsections (a) and (d), restrictions on access, judicial remedies respecting restrictions for persons providing information services and access to information services—

“(1) It is a defense to prosecution that a person has complied with regulations designed to restrict access to indecent communications to those 18 years old or older as enacted by the Federal Communications Commission which shall prepare final regulations within 120 days of the passage of this bill. Until such regulations become effective, it is a defense to prosecution that the person has blocked or restricted access to indecent communications to any person under 18 years of age through the use of verified credit card, adult access code, or adult personal identification number (PIN). Nothing in this subsection shall be construed to treat enhanced information services as common carriage.

“(2) No cause of action may be brought in any court or any administrative agency against any person on account of any activity which is not in violation of any law punishable by criminal or civil penalty, which activity the person has taken in good faith to implement a defense authorized under this section or otherwise to restrict or prevent the transmission of, or access to, a communication specified in this section.

“(f) Nothing in this subsection shall preclude any State or local government from enacting and enforcing laws and regulations which do not result in the imposition of inconsistent obligations on the provision of interstate services. Nothing in this subsection shall preclude any State or local government from governing conduct not covered by subsection (d)(2).

“(g) Nothing in subsection (a), (d), or (e) or in the defenses to prosecution under (e) shall be construed to affect or limit the application or

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enforcement of any other Federal law.

"(h) The use of the term 'telecommunications device' in this section shall not impose new obligations on (one-way) broadcast radio or (one-way) broadcast television operators licensed by the Commission or (one-way) cable services registered with the Federal Communications Commission and covered by obscenity and indecency provisions elsewhere in this Act."

Sec. 403. OBSCENE PROGRAMMING ON CABLE TELEVISION.

Section 639 (47 U.S.C. 559) is amended by striking "10,000" and inserting "$100,000".

Sec. 404. BROADCASTING OBSCENE LANGUAGE ON THE RADIO.

Section 1466 of Title 18, United States Code, is amended by striking out "$10,000" and inserting "$100,000".

Sec. 405 SEPARABILITY

"(a) If any provision of this Title, including amendments to this Title of [sic] the application thereof to any person or circumstance is held invalid, the remainder of this Title and the application of such provision to other persons or circumstances shall not be affected thereby."

The Constitution

For comparison, here is a much shorter bill, part of the Bill of Rights, and as the First Amendment to the US Constitution, part of the most basic law of the United States:

Congress shall make no law respecting the establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the Government for a redress of grievances.

The proposed CDA and the Constitution are in conflict. If CDA becomes law, it will certainly be challenged in the courts on that basis, if not others. Fear of this kind of heavy-handed government interference with free speech is exactly why the First Amendment was needed in the first place.

The Effects

Meanwhile, CDA as law will have a strong deadening effect on the Internet. Who will want to be in the business of providing Internet services with such vague and arbitrary penalties hanging always over their head? Some of those who stick it out will end up being test cases, to the tune of massive legal bills. Those children CDA supposedly is to protect will be denied much of the benefit of one of the greatest boons they might have had: the Internet. Those adults who use it will have to fear for their every word, sound, and image, that it might be considered by some prosecutor somewhere to be "indecent".

As we have previously noted, technical solutions and commercial products are already available to those parents who wish to limit Internet access. Government interference with the Internet is unnecessary, and is a waste of

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taxpayers' money when the government has so many more pressing matters to deal with, such as getting its own budgeting process in order.

If government feels it must get involved, a much more reasonable approach has been proposed by Cox, White, and Wyden (HR1978); it basically involves studying the issue to see where problems might actually exist, and recommending types of technical and social solutions.

What Can You Do?

Call or write:

Speaker of the House Newt Gingrich, (202)225-4501, fax (202)225-4656

Senate Majority Leader Robert Dole, (202)224-6521, fax (202)224-8952

Tell them what you think in your own words. For example, tell them you are opposed to censorship of the Internet but you are in favor of parental control, as reflected in the Cox/White/Wyden approach.

Calling them or faxing them a message will be more influential than sending electronic mail, which in this particular controversy can be discounted too easily.

Both Gingrich and Dole are Republicans, but please don't mistake the Internet censorship movement as a Republican initiative: the principal sponsor of the original CDA is a Democrat, and many Democrats are involved in this movement. After all, what politician is going to risk being tarred as being in favor of pornography? Perhaps those whose constituents make it clear that they are in favor of freedom of speech and of parental responsibility, rather than unneeded governmental interference.

For More Information

For contact information for the conference committee members and other Congress members and government leaders, as well as other information, you can use the Internet itself:

http://www.vtw.org/exon/

http://epic.org/

http://www.cdt.org/cda.html

The bill we quoted isn't even the only Internet censorship bill before the conference committee. For information on the others, see the URLs above.

These addresses come from the Voters' Telecommunications Watch (VTW), which has been one of the most active organizations monitoring the progress of Congressional attempts to censor the Internet. VTW posts weekly updates on the situation as well as occasional alerts. To get those messages, or similar but less frequent information from the Center for Democracy and Technology (CDT), send mail to one of the following addresses:

vtw@vtw.org (put "send alert" in the subject line for the latest alert, or "send cdafaq" for the CDA FAQ)

cda-info@cdt.org (General CDA information)

cda-stat@cdt.org (Current status of the CDA)

Apathy is easy, but the political action needed to preserve the Internet isn't all that difficult if enough of us do it. ■

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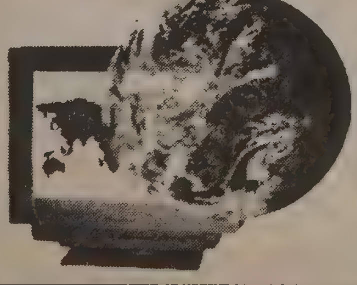

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Web Page Listings

BUSINESS

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Accord Services *http://www.weblink.com/accord/* Accord Services offers software to help you think creatively, solve problems, and meet new friends. [Exp. #146.]

Erotica Adult

Adult CD-ROMs! *http://www.primenet.com/~rdmm/* Free Catalog. The hottest adult interactive games and movies available. ROM-Dezvous multimedia. [Exp. #147.]

Erotica Adult

AdultDex 95 *http://www.a1.com/tpi/index.html* Gateway to Adult Multimedia Industry. Developers, Publishers, Distributors, and Mail Order. [Exp. #146.]

CPS

Advanced Logic Research *http://www.alr.com/* ALR manufactures sophisticated multi-processor network servers, high-performance workstations, and environmentally friendly personal computers. [Exp. #146.]

Algae—CellTech *http://dcn.davis.ca.us/~kwa/celltech/* Wild super food to rejuvenate your body and spirit at cellular level. [Exp. #148.]

America's Discount Realty *http://www.rereferrals.com* A unique Cash Rebate Referral system, where you choose your agent and we save you money. [Exp. #148.]

American Pacific Tea And Spice *http://www.icw.com/teashop/* Providing you with the best teas and spices from around the world at bargain prices. [Exp. #148.]

Financial Legal

Ameristock Mutual Fund *http://www.ameristock.com/* No-load, value based, domestic stock fund that invests in large-cap. companies. Original research, NAV's, and risk questionnaire. [Exp. #148.]

Amulet Consulting *http://www.amulet.com/mirror/amuletc.com/* Internet and desktop database software development. Home of the HOT database site of the month. [Exp. #147.]

CPS

Applied Computer Systems *http://www.apcom.com* ACS sells new and pre-owned Sun equipment. We sell parts as well as complete systems. [Exp. #146.]

ArtRock Online *http://www.artrock.com/* Online retail catalog and gallery of the world's largest selection of collectable rock and roll music poster memorabilia. [Exp. #146.]

CPS

Aspen Computer, Inc. *http://www.visdesign.com/aspen/* Portable computer specialists, laptops, notebooks. [Exp. #148.]

ATK Engines *http://www.atk-engine.com/atk* Factory Remanufactured Engines for American, Japanese, and European cars and trucks. Free delivery in the USA. [Exp. #148.]

Axcis Information Network *http://www.axcis.com/* Makers of SportsMaster and TrackMaster. Online handicapping information for football, basketball, and horse racing. [Exp. #148.]

Azule Of Saratoga, Florist *http://www.joes.com/azule/* Order direct via the Net. We ship by wire world wide. [Exp. #148.]

Art

Backlot Movie Sets *http://www.greenheart.com/keni/* Paintings and prints of Hollywood's movie sets by former scenic artist and set painter. [Exp. #148.]

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Barnes & Noble in Costa Mesa *http://www.ni.net/barnes_noble* See what is happening in our store and link up with other Internet book sites. [Exp. #146.]

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Battery Technology *http://www.batterytech.com/* The leasing manufacturerer of portable computer accessories. [Exp. #148.]

BayFront Classifieds *http://bayfront.com/* Use our search tool to find the ad items you're interested in. Submit free classified ad. [Exp. #147.]

Bender Zahn Tigges *http://scamless.com/bzl* Located in Dusseldorf, this German law firm handles clients throughout Europe. [Exp. #146.]

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BG Computer *http://www.zoom.com/personal/bob-huang/bg/bgmain.html* [Exp. #146.]

CPS

Bilbo Innovations, Inc. *http://www.bilbo.com/tae/bilbo/bilbo.html* Step On It! Computer Control Pedals take the next step in user convenience. [Exp. #147.]

BODY DOUBLES *http://www2.primenet.com/%7Edoubles/* Experience the beauty of youth with Body Doubles' aloe vera and glycolic products. Ask about our Complimentary Gift: Private Collection Fragrance—Savoir Faire. Please reference WARF4828 when responding. [Exp. #148.]

Boyden Dental Practice Home Page *http://www.smiledoc.com/dentist/* Tops for a better smile and links to other dental advisories to keep you informed. [Exp. #147.]

Buell Motorcycle Company *http://www.buell.com/buell.html* America's newest motorcycle manufacturer was formed in 1993 by Erik Buell, a former Harley-Davidson, Inc. engineer and ex-national class road racer. [Exp. #146.]

CADALYST Magazine *http://www.advanstar.com/cadalyst* Providing valuable information to visitors interested in the AutoCAD industry—includes current and classic issues of the magazine. [Exp. #146.]

Caligari Corp. *http://www.caligari.com/* Download free trial version of trueSpace2, the leading 3-D graphics and animation software for Windows. Also, download Fountain, a VRML 3-D browsing and authoring tool. [Exp. #148.]

CARS—Cyberspace Auto Related Swapmeet *http://www.carsnet.com/* Find all kinds of vehicles for sale, everything from uniques to antiques. A video page offers over eighty of the Wildest Racing Motorsports tapes available. [Exp. #147.]

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CD Source *http://www.cdsourceline.com/cds* CD-ROM resource center, bookstore, software store, news, and reference site. Includes reviews, articles, and tips. [Exp. #146.]

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CD SourceLine *http://www/cdsourceline.com/cds/* A CD-ROM technology resource center to learn about, evaluate, sample and shop for CD-ROM titles and books. [Exp. #147.]

Pers Growth

Center For Creative Growth *http://www.geopages.com/SunsetStrip/1284/* Providing counseling and education for growth and recovery. Therapists trained by the John Bradshaw Center in the Bay area. [Exp. #148.]

Cherry Lane Music *http://www.cherrylane.com/* High quality printed music. Rock, guitar, folk, pop and country are our specialties. We are leaders in guitar tablature. [Exp. #148.]

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CLC Research *http://www.clcr.com/memory/* Upgrade your laptop today. Best price for your Apple, Compaq and Toshiba laptop Memory. [Exp. #148.]

Clicket *http://www. clicket.com/clicket* Products from Star Trek, Star Wars costumes and gifts to personalized Christmas Cards and Santa suits. [Exp. #148.]

Graphics Servic

ClickPic Scanning Service *http://www.netventure.com/cpc/* Scanning service offering fast, high quality, photo and document scanning with email return of images. [Exp. #146.]

FS—19

Coldwell Banker *http://www.RWF2000.com/barry.html* Real Estate broker for SF Peninsula area specializing in homes and small investment properties. Also specializing in church owned properties in four county area. [Exp. #147.]

CompuAll Internet Services *http://www.compuall.com/* Internet services, accounting systems, hardware services, network services. [Exp. #148.]

CPS

CompuShare, Etc. *http://www.wp.com/cshare/* Specializing in computer hardware and accessories for IBM compatibles and the Commodore computer. [Exp. #148.]

CPS

Computer Recycler *http://coolsville.com/recycler/* We buy, sell, and trade new and used Macintoshes and PCs. Best prices. [Exp. #148.]

CPS

Computer Training Consultants *http://www.hetdl.com/~msri/CTC1.html* Provides in-house, online and on-site software and hardware training in PC and Mac LAN environments. [Exp. #146.]

CPS

Computer Training Network *http://www.crctraining.com/ctn/* CRN lists computer instructor and training companies by category, product, and region. Help for companies to upgrade emplyees' skills. [Exp. #147.]

Graphics

Consultex *http://www.consultex.com/* Electronic Publishing firm specializing in desktop publishing, Web development, and graphic design (415/328-3999). [Exp. #148.]

Costar, Inc. *http://www.costar-rep.com/* Costar is a professional electronics components manufacturers representative, serving Northern California, whose mission is customer service. [Exp. #148.]

Misc.

Craftwork Solutions, Inc. *http://www.craftwork.com/* Info on Craftwork Solutions, Inc. and Craftworks Linus with hyperlinks. [Exp. #148.]

CyberLawyer *http://cyberlawyer.com/advice/* An Internet Legal Service that provides quality online legal advice from licensed attorneys for a modest fee. One query is just $24.95. [Exp. #147.]

22

CPS

Darwin Open Systems *http://www.uunet.ca/darwinsys/* UNIX training and consulting. OPEN LOOK and XView CD-ROM contains source for library, many programs in source and compiles for Minux and SunOS. [Exp. #147.]

CPS

DBasics Software Company *http://pacificnet.net/~dbasics/* Clipper Programming with Programmer's Yellow Pages, shareware, public domain source code and 5,000 icons. [Exp. #148.]

CPS

DeltaPoint, Inc. *http://www.deltapoint.com/* Data/Process visualization software publisher—download a free image cataloger and graphic utility. (Mac/Win) [Exp. #146.]

CPS

Demand Systems Home Page *http://www.fishnet.net/~dumbra* Demand Systems sells computer software and hardware. They also carry the Jaguar and Lynx. [Exp. #146.]

BS

DHL Worldwide Express *http://www.dhl.com/* Provides information on shipping services offered by DHL for all of the 217 countries that the DHL network serves. [Exp. #146.]

Digital Conversion Technology *http://navishow.ans.net/lab/m/mtownes* Sales, bids, quotations, and proposals. We search and deliver—you produce and sell. [Exp. #146.]

Graphics

Digital Photo Restoration, Retouching, & Scanning *http://www.wp.com/PhotoRestoration/* Specializing in digital photo restoration,

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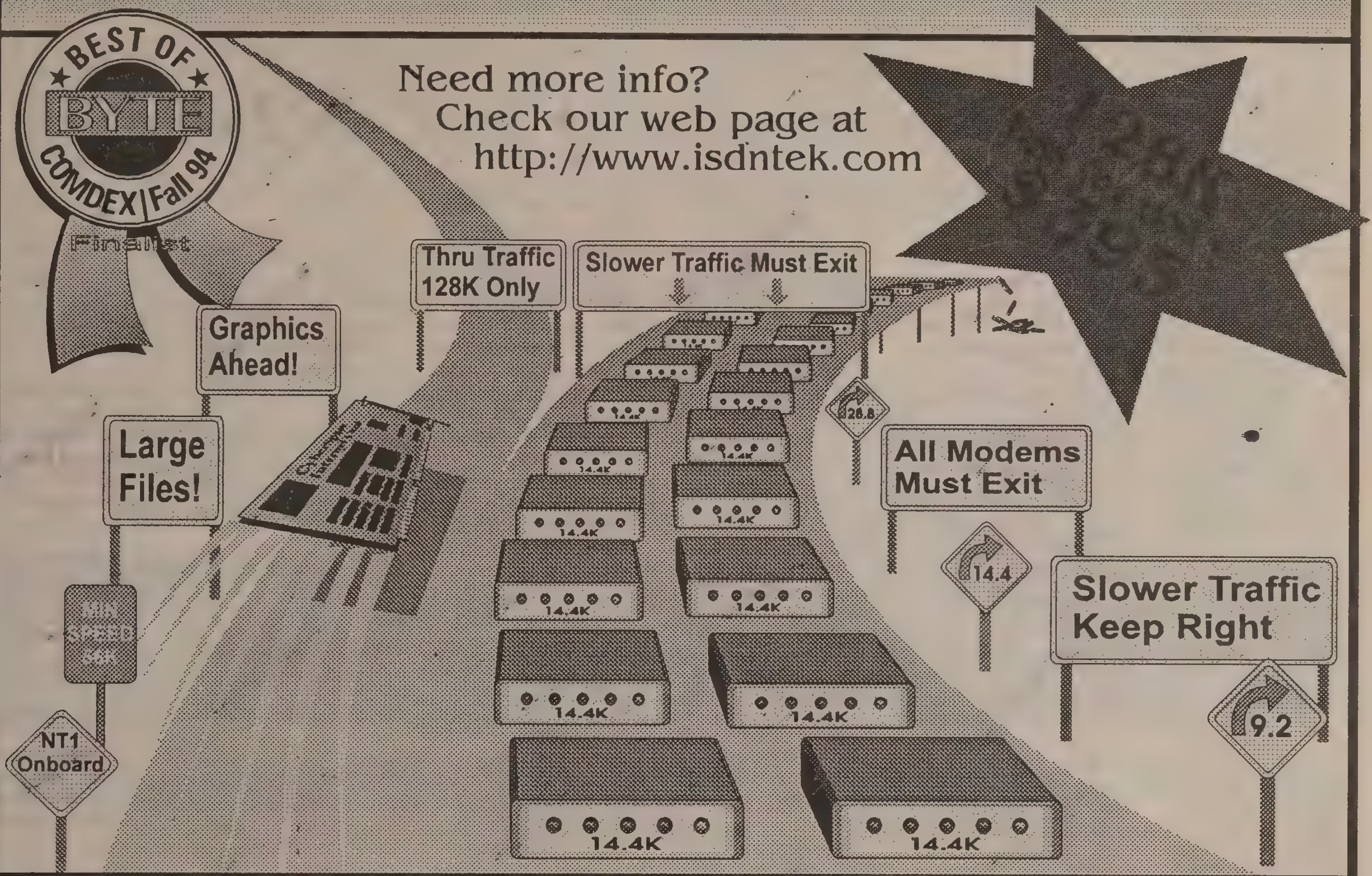
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Web Page Listings *continued...*

retouching, colorizing, image manipulation & scanning. We do it right! [Exp. #148.]

Distant Shores *http://www.distantshores.com/* We showcase fill color photos/descriptions of high-end antiques and collectibles. 1-800-274-5968. [Exp. #148.]

The Earth's Best World Wide Web Site *http://www.earthsbest.com/* The Web site for Earth's Best, the nations only organic baby food, includes information about the company and products as well as articles on parenting, infant health and nutrition, environmental issues, and organic agriculture. [Exp. #146.]

EBS MicroSystems *http://www.shasta.com/ebs/* [Exp. #148.]

eCesys, Inc. *http://www.alaska.net/~ecesys* Low-cost Pentium Systems optimized for NEXTstep, Win 95, and WinNT deployment. [Exp. #146.]

Echelon LonWorks Technology *http://www.lonworks.echelon.com/* LonWorks offers networking technology for building, home, industrial and transportation automation. [Exp. #146.]

EIO: Electronics Information Online *http://www.wio.com/* A super surplus store. We buy and sell excess, discontinued, new, and used electronic components and computers. [Exp. #146.]

Enchanted E-Books *http://www.e-books.com/* We sell electronic-books, classics and contemporary original works, in Windows Help Text format. We also provide publishing services for writers and other people. [Exp. #148.]

EZ Systems *http://register.com/drives* Tape and optical disk drives for sale or repair. Most major brands supported. [Exp. #146.]

Federal Building Company *http://www.federalbuilding.com/* A design/build residential remodeling firm founded in Oakland in 1925. [Exp. #148.]

Fisher Model And Pattern Works *http://www.wco.com/~fisher* Resin model kits of classic 50s and 60s racing cars. [Exp. #146.]

Flor De Manila Cigars *http://www.netins.net/showcase/fujicig/flordemanila.html* The most popular Cuban seeded Philippine hand made cigars available. Blended with a satisfying character with a hint of the exotic. [Exp. #146.]

Fogo e Paixao *http://www.earthlink.net/~fogo/* Brazilian introduction and matching agency, online. [Exp. #147.]

The Front Window *http://www.joes.com/frontwin/* Quality unique gifts and collectibles, available to order online. [Exp. #148.]

Genoa Technology's Web Site *http://www.gentech.com* Testing solutions for Printer Emulations, Facsimile (T.30), IrDA (Serian Infrared), IEEE 1284, and SNMP. [Exp. #146.]

Glyphics *http://www.glyphies.com/glyphics/* A digital content design firm specializing in broadcast, film, and interactive productions. [Exp. #148.]

Golden Sun Co. *http://www.clcr.com/goldensun/* Sunglasses for wholesalers and retailers. Offering thousands of models of sunglasses for the lowest price. [Exp. #146.]

Gone To The Dogs *http://www.calypso.com/g2tdogs/* Dog training service; training articles posted often; training products available online; chat available soon. [Exp. #148.]

Good Doin's Holding Company *http://www.iac.co.jp/~gooddoin/* Provides information and services to help parents do a good job of self-care and child rearing. [Exp. #148.]

Graphics Development International, Inc. *http://gdisoft.com/* GDI gives you tools to scan, design, edit, fill, merge, and print all your forms. [Exp. #147.]

Great Fax Cover Sheet Co. *http://emporium.turnpike.net/W/wortB/welcome.html* Unique products at great prices. Something for everyone even if you don't fax. [Exp. #148.]

Greek Hotel And Cruise Reservation Center *http://www.deltanet.com/bazaar/greece.htm* Your link to over eight thousand Greek Hotels and Cruises covering the Greece mainland and islands. [Exp. #146.]

Homes For Sale On The Internet *http://www.he.net/~bsonder/homes.html* Have some real estate to sell? Want to increase your audience? Advertise with Homes for Sale on the Internet. [Exp. #146.]

Information Broker *http://infobrkr.com/IB/DTP.htm* Affordable desktop publishing via B/W printed material and the Web. [Exp. #146.]

Input Automation *http://www.inputauto.com/barcode/* Bar code specialist. Supplier of bar code scanners, printers, portables, and tracking software. [Exp. #148.]

Instant $avings BBS *http://www.liberty.com:80/home/couponbbs/Welcome.html* A free BBS soon to have free Internet email and a home-based business opportunity. [Exp. #146.]

Instant Wholesale Pricing For 170,000 Computer Products *http://www.applied-computer.com/* Applied Computer of San Jose lets users instantly access pricing information on over 170,000 computer products. [Exp. #146.]

Insulectro *http://www.insulectro.com/* Learn about as well as order from this printed circuit and electromaterials supplier. [Exp. #148.]

International Channel Networks *http://www.i-channel.com/* The premier provider of multi-language television programming, featuring over twenty four different languages. [Exp. #146.]

International Consulting *http://www.insist.com/* Build a strong distribution/OEM channel in Europe. Fluent in German, French, and Dutch. Set up branch offices in four weeks. [Exp. #146.]

International Export Connections *http://www.teleport.com/~iexportc/* Export your products and locate international distributors. Use our libary to get insights into the export market. [Exp. #148.]

International Property *http://www.cruzio.com/~property/* An International Real Estate Consultant working to match people with companies or property. [Exp. #148.]

Jeffe & Soeder *http://www.jeffe-soeder.com/* A marketing communications firm specializing in high technology companies. See our online consultation. [Exp. #147.]

JR Engraving *http://www.mousetrap.com/* Cool mouse pads. [Exp. #148.]

K&A Consulting *http://www.kaconsult.com/* Monthly tips and strategies for marketing and selling on the Internet. Links to additional resources, companies, and organizations that may be worth exploring. [Exp. #148.]

Kamaaina's Best *http://planet-hawaii.com/kambest/* Gift baskets filled with Hawaiian treats like passion fruit butter, taro pancake mix, coffees, teas, and more. [Exp. #146.]

Laser-Tone International *http://www.laser-tone.com/usa/* A S. Flordia-based company offering Internet users an easy way to save money on laser printer cartridge recharges. Free US delivery. [Exp. #148.]

Lawrence Rosenberg's Van Nuys Legal Services *http://primenet.com/~lawrose/* Legal services and public service listings relevant to residents of Van Nuys, San Fernando Valley. [Exp. #148.]

Learning Tree International *http://www.learningtree.com/* Learning Tree International's guide to its information technology courses—NetWare, Microsoft, LANs, Programming, and more. [Exp. #148.]

Luxcom, Home for Isochronous Networking *http://www.luxcom.com/* Provides Isochronous networking for isoEthernet, Ethernet, and Token Ring. [Exp. #147.]

Maxis *http://www.maxis.com/* Maxis site has been live but in the works since spring, and is being officially unveiled with new features and surprises. [Exp. #148.]

Maxsoft-Ocron, Inc. *http://www.maxsoft-ocron.com* Maxsoft-Ocron, a leader in OCR software and Toolkits. Visit us and download Wordlinx free. [Exp. #146.]

Med X Change *http://www.gate.net/~medxxx/* Offers medical equipment by hundreds of medical equipment dealers. Look for our hot links in the Hospital Web, Hospital NET, and the Victoria web. [Exp. #148.]

Miniman *http://www.mindiarm.com/midiman* Midiman's Web site consists of over twelve pages of product and company information, and an ftp site for files. [Exp. #146.]

Music Boulevard *http://www.musicblvd.com* A one-stop service where customers can listen to 30-second sound samples, view album art or artist photos, read reviews or biographies, and buy from an extensive music catalog. [Exp. #146.]

Mutual Fund Investing Home Page *http://www.ManhattanLINK.com/* Features weekly mutual fund rankings and trading system results. Also, online newsletter and links to other mutual fund research sites. [Exp. #146.]

The Network Buyer's Guide *http://www.sresearch.com/* Created by Strategic Research Corp., this site is a central source for network and system administrators to gather information on storage and networking. [Exp. #147.]

Newer Technology *http://www.newertech.com/* Supplier of Mac peripherals and memory products. Grouped into four categories: acceleration, connectivity, memory, and PowerBook accessories. [Exp. #146.]

Nicolet: Instruments Of Discovery *http://www.nicolet.com/* A manufacturer of analytical instruments. Products include Fourier transform infrared and Roman spectrometers, microscopes, sampling accessories, and spectroscopy software. [Exp. #147.]

NutriGenie *http://pages.prodigy.com/CA/nutrigenie/* Nutrition software for better health. Winner of Home PC Top 100 Products of the Year Award. [Exp. #146.]

O'Keefe World *http://www.okeefe.com* O'Keefe World is a full-service advertising agency. Bandwidth busting graphics. Idiotic image maps. All style, no substance. [Exp. #146.]

Opamp Labs, Inc. *http://opamplabs.com/* Mgf. of amplifiers, audio, video, industrial, network-feed boxes, switches, transformers, oscillators, and power supplies. [Exp. #148.]

Pacific International *http://www.pacintl.com/pacintl/* Specializing in Japanese/English internationalization (bid or contract). We are multi-platform capable. [Exp. #146.]

Paper Publishing Company *http://www.papermag.com/* A virtual downtown infused with the PAPER sensibility that has revolutionized pop culture reporting in print. [Exp. #148.]

PC Crisis Line *http://www.netbox.com/pccrisis* Telephone support services for personal computer users. Dump the manual, talk to a real person. [Exp. #148.]

PC Physician *http://www.earthlink.net/~psphysician/* For repairs and installation of PC hardware and software. For rates, info, and more, look here. [Exp. #146.]

The PC4 Zennet Home Page *http://www.zennet.com/* Come find out about T. Pascal and Associates and their wonderful hardware solutions. [Exp. #146.]

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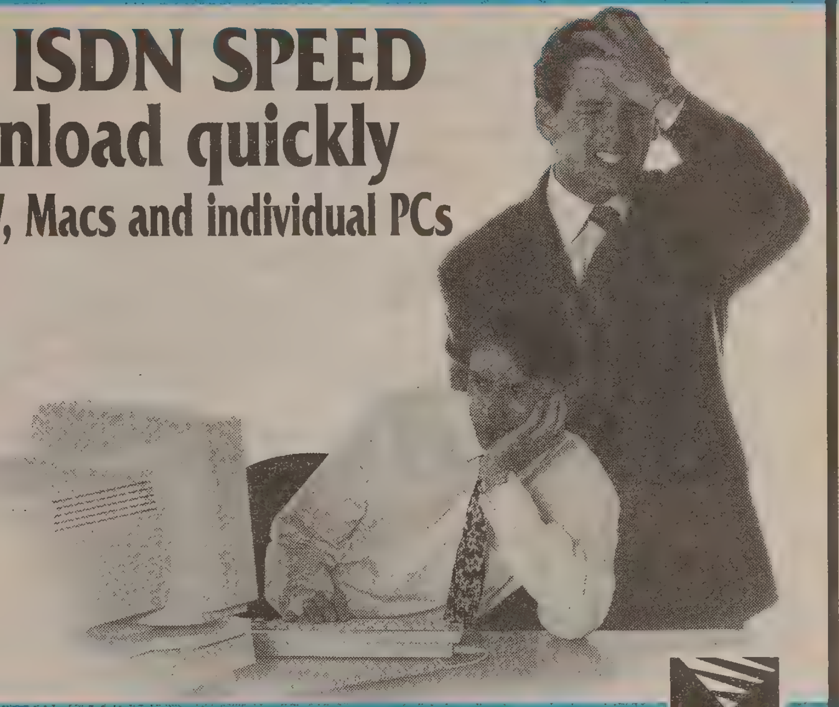

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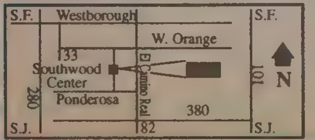

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Web Page Listings *continued...*

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The People's Place On The Web *http://www.PeoplePlace.com* Your place for health, natural resources, personal and professional growth, nutrition, fitness, and fun. [Exp. #146.]

CPS

The Probe *http://www.theprobe.com/* Business to business network publication. Great offers on products and services. [Exp. #147.]

CPS

Qualtos *http://vurtualguide.com/Qualtos/* New company offers discount computers, software, Internet access, and tech support. [Exp. #148.]

CPS

Recortec, Inc.'s Business Center *http://www.industry.net/recortec* Industrial rack mount computers, enclosures, keyboards, monitors, and printers. Web site includes descriptions and datasheets. [Exp. #146.]

BS

RESULTS Recuiting *http://www.resultsr.com/* Recuiting company (headhunters) specializing in employer-paid searches and placements for EDA and related industries. [Exp. #148.]

HRE

Ross and Associates, Inc. *http://miamirealestate.com/ross/* Miami and South Florida residential and commercial listings for anyone wishing to buy, sell, rent, or lease. [Exp. #147.]

Royal-T Cleaners—Fountain Valley *http://www.primenet.com/~proclaim/royalt.htm* We clean and beautifully press your doll and vintage clothing. Acid Free Tissue available. [Exp. #148.]

FL

Safeware, The Insurance Agency, Inc. *http://www.safeware-ins.com/* Insures computers against theft, fires, power surges, accidents, natural disasters, and earthquakes. Review details and apply. [Exp. #146.]

Schlage Lock Company *http://www.schlagelock.com/schlage/* Featuring everything from home security tips to a comprehensive history of locks. [Exp. #148.]

BKS

Secret Staircase Bookshop *http://www.secretstaircasebooks.com/* An independent bookshop specializing in children's books and mysteries for adults. [Exp. #146.]

Status

Semaphore Corporation Postal Data On CD-ROM *http://www.scruznet.com/~semaphor* Addresses, all ZIP+4 codes, and address correction software for Windows and Macintosh. [Exp. #148.]

Travel

Seven Crown Resorts *http://www.sevencrown.com/* Get information about houseboat vacations on four of the West's most spectular waterways: Lake Mead, Lake Mohave, Lake Shasta, and the California Delta. [Exp. #148.]

MP

Shamrock Base Corp. *http://wavenet.com:80/~shamy/* Offering base materials used in road construction and a downtown L.A. concrete/asphalt dump site. [Exp. #146.]

To buy

Shopping Planet *http://www.shoppingplanet.com/* Win free gifts! Purchase online, getting the best prices on computers, software, etc. [Exp. #148.]

CPS

Silicon Data *http://www.silicondata.com/sdi/silicondata.html* [Exp. #148.]

Store

Software Outlet *http://www.softwareoutlet.com/* A mail order company specializing in low cost software. Call 1-800-230-soft for a free catalog. [Exp. #148.]

Status

StarComp *http://www.leonardo.net/starcomp/* Virtual Showbiz Software store—scripting writing, production scheduling, budgeting, and plot assistance. [Exp. #146.]

Superior Stamp & Coin *http://www.amark.com/amark* Conducts auctions of individual/estate consignments of stamps, coins, manuscripts, fine arts, sports and space memorabilia. [Exp. #146.]

Swim At Home In An Endless Pool *http://www.endlesspools.com/~swim/* Swim or exercise "in place" against a smooth current adjustable to any speed or ability. The Endless Pool is only 8' by 15'. [Exp. #146.]

Status

Systematic Solutions *http://www.systematicsol.com/* Selling integrated software for Wholesale-Distributors and Service Companies. (Touchstone 2000, Solomon, and Great Plains) [Exp. #148.]

graphics

T-Square Express *http://www.t-square.com/output/* South Flordia's largest chain of reprographic and digital imaging services bureaus is now online. [Exp. #148.]

To buy Sports

Team Sports Wear *http://www.teamsports.com/* Web site for first quality, licensed sports clothing and accessories, features CyberCash for secure purchases. [Exp. #147.]

SW

Tellan Software *http://www.tellan.com/* Credit authorization and electronic sales software for the Macintosh and Windows. [Exp. #148.]

Music

Thomas Musical Instruments *http://www.cuenet.com/tmi* Complete brass and wind instrument services. New, used, expert repair, rentals, and lessons. [Exp. #148.]

TLC The Eye Center *http://www.laservision.com/TLC* The first Internet site dedicated to clinical excellence in Laser Vision Eye Correction. [Exp. #146.]

Toasted *http://www.berksys.com* Berkeley System's Toasted offers everything from traditional product listings, customer support, and general company information. [Exp. #146.]

To buy

Tropical Treasures *http://www.pete.com/treasures* Traditional handicrafts from the Kapingamarangan craftsmen in Porakiet village on Pohnpei Island are available on the World Wide Web from Tropical Treasures. [Exp. #148.]

MP

Tubz *http://www.opendoor.com/Tubz/TubzHmPage.html* The largest selection of jetted and non-jetted bathtubs on the West Coast. [Exp. #146.]

Vinylware *http://www.Vinylware.com/* The Artist's Music Distribution Alternative. Providing Web access

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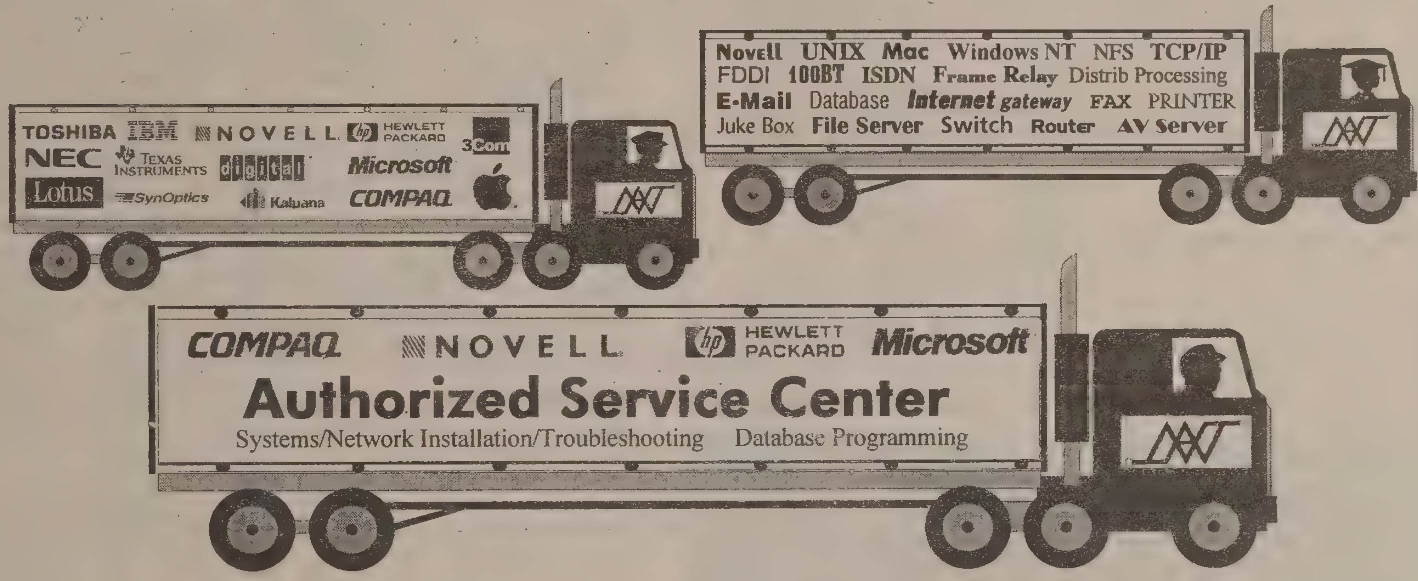
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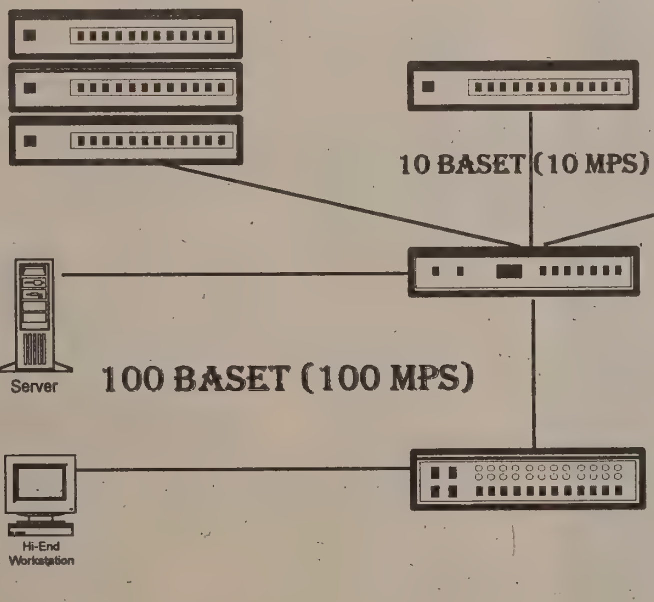
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$15 per Mo. Monthly Unlimited Access!

Training Special
- 3-Hour Class
- Free Software
- 1 Mo. Free Access

$49

Graphical Interface - World Group Software
- Free World Group Interface Software available for download
- Use Netscape, Mosaic or Eudora

Custom Web Service
- On-Site Web Service Management

New Games Connection
- Online and Multiplayer Games
- Play Doom with up to 4 players
- 7,000 Game Files for Download
- Visit your favorite Internet game sites

The Parapsychology Forum
- Online Tarot Reading, Free
- Forums and News

Travel Services
- American Dream Cruises Online - Cruise Only Travel Agency
- World Wide Cruise Intinerary Online

Business & Services
- Home Buyers Network
- Online Shopping Mall
- Custom Forums - Public or Private
  Bring your group Online, call us!
  IBM And MAC Users Welcome
  12,000 Shareware files for download
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- ISDN accounts $35 a month flat rate
- SLIP/PPP $25 unlimited per month
- Shell Accounts Start at $15 a month

Start the New Year with a new toy.
Batteries Included!

Online Guide

Web Page Listings *continued*

for musicians. [Exp. #148.]

To buy

Virtual Vineyards *http://www.virtualvin.com* Presenting a great selection of fine wines and speciality foods you can order and have delivered to your door. [Exp. #148.]

CPs

W Lewis Company *http://www.wavenet.com/~wlc99* Computer products, parts, systems, CD's, leasing, and hi-tech security system. [Exp. #148.]

To buy

Wave Rider *http://hoohana.aloha.net/waverider/* Unique Hawaiian t-shirts for any surfer/paddler (water or Internet). Shirts are USA made. [Exp. #146.]

We Clean America *http://www.pinsight.com/~zeus/wca/* Now online, We Clean America cleans your apartment, home or office in Southern California. [Exp. #148.]

BS

West Coast Manuracturing *http://www.gumballs.com/vending/* This site is geared toward individuals and businesses that want to earn extra income with minimal investment and little effort. [Exp. #148.]

Sports

Windjammer Barefoot Cruises *http://www.windjammer.com* Offers descriptions of each ship in the fleet, plus a "News and Specials" section and faq about Windjammer. [Exp. #146.]

graphics

Wish You Were There *http://www.wishco.com/wish/* Graphical Web Page design; digital photo manipulation, enhancement, and restoration; dye-sub and video output. [Exp. #148.]

Wooden Castle Craftsman *http://www.woodencastle.com/* Custom-drawn blueprints and material quantity estimates for do-it-yourselfers planning decks, gazebos, additions, and remodeling. [Exp. #147.]

Telephone politics

Working Assets *http://www.wald.com/wa/wald* Working Assets provides ways for customers to be effective citizens and philanthropists. [Exp. #146.]

To buy

The World of Robert Raikes Collectibles *http://www.UrsaMajor.com/menu.htm* Color photos and interactive text describing the Rober Raikes Collectibles, teddy bears, and other gifts. [Exp. #148.]

graphics

(x)faktor Design *http://sfaktor.com/xfaktor* Specialized in traditional and electronic design implementation, including advertising, Logo, publication layout, and web page design. [Exp. #146.]

Zadian Technologies, Inc. *http://www.zadain.com/* San Jose-based Zadian Technologies is a leading developer and manufacturer of test systems for the engineering and manufacturing of I/O peripheral devices. [Exp. #146.]

MP

ZByte Games *http://www.insist.com/zbyte/* Manufacturer of casino quality, high-tech playing cards that allow design of 21st-century logic and binary games. [Exp. #148.]

BUSINESS INFORMATION

telephone

555-1212.com *http://www.555-1212.com/* Pick an area code, then look it up. 800, 900, Global directories, too. [Exp. #148.]

@Home PC-Biz Info *http://www.earthlink.net/~mspcbiz/* Make Money with Your PC! author, Ms. PC-Biz, gives hints, success stories, and advice. [Exp. #146.]

FL

AttorneyNet *http://www.attorneynet.com/* An international resource for locating an attorney, including an extensive list of Internet legal sites. [Exp. #146.]

Employment

Career Network Magazine *http://www.earthlink.net/careernet/* Online publication of the Career Network's CD-ROM magazine—informative articles, employment classifieds, resumes of hundreds of jobseekers, and color display ads. [Exp. #146.]

BS

CIO Help Desk *http://www.entex-is.com/* ENTEX Information Services' ($2B sales) information-packed site focusing on the needs of the CIO and MIS Manager. This sight has been highlighted in *PC Week*, *Infoworld*, *Computerworld*, and *CIO Magazine*. [Exp. #148.]

F/L

Commercial Law League Of America *http://bankrupt.com/clla/clla.html* Information for those interested in bankruptcy or collections. CLLA, established in 1895, is the oldest creditor's rights organization. [Exp. #147.]

CPs

Computer ESP *http://www.uvision.com/* Quickly and easily find comprehensive, organized, up-to-date information on over twenty thousand computer vendors and dealers and their products. [Exp. #146.]

CPs

The Computer Price Cruncher *http://www.killer-app.com/* Free computer price comparisons. One click finds the best among Bay Area stores. [Exp. #146.]

FL

Credit Card Network *http://www.creditnet.com/* Offering a selection of online credit card applications, plus lists of low interest, secured, rebate, frequent flyer, and high credit line credit cards. [Exp. #147.]

Dan Kegel's ISDN Page *http://www.alumni.caltech.edu/~dank/isdn* Your first stop for ISDN info, whether you're a novice or expert. [Exp. #148.]

SF

Digital Restaurant Guide to San Francisco *http://sf.net/lantern/* Every single restaurant in San Francisco with detailed locator maps, review, and info. [Exp. #148.]

EE/CS Mother Site *http://www-soe.stanford.edu/soe/ieee.eesites.html* Links to EE/CS corporations, organizations, and schools. [Exp. #146.]

The Government Bidder's Weekly *http://www.gbw.com/calbids/* A weekly newsletter that lists local California government bidding opportunities. Hundreds of hot sales leads. [Exp. #147.]

Incorporate In Tax Free Nevada *http://deltanet/com/bazaar/nevada.htm* Create a safe environment for you and your online company. Judgment proof and reduce your tax liabili-

RAVE REVIEWS! GREAT PRODUCTS

PC WORLD BEST BUY

"N5100 Media - Great price. Impressive performance, full multimedia." PC WORLD, JANUARY 1996

"Excellent price, outstanding Pentium-75 performance." PC WORLD, October 1995

"Fast performance... The N575's fine performance almost earn it a Best Buy." PC WORLD, July 1995

Internet Systems

- ☐ Intel Pentium® processor
- ☐ 256K cache, 16MB memory
- ☐ 1.6GB IDE hard drive
- ☐ 1.44MB TEAC Floppy Drives
- ☐ Diamond Graphics w/2MB Vram
- ☐ 15" Non-interlaced .28mm SVGA
- ☐ 2 Serial (high speed),1 parallel port
- ☐ 14.4 bps internal fax modem
- ☐ Logitech 2-button Mouse w/Pad
- ☐ MaxiSwitch NOVA 101 Keyboard
- ☐ Middle tower with Power Supply
- ☐ **MS Windows 95**

75 MHz	**$1,915**
100MHz	**$2,050**
120MHz	**$2,100**
133MHz	**$2,290**

Multi-Media Systems

- ☐ 486 CPU with ZIF socket
- ☐ 8MB Memory, 256KB cache
- ☐ PCI/ISA slots
- ☐ 635MB hard drive
- ☐ 1.44MB TEAC Floppy Drive
- ☐ PCI Graphics with 1MB
- ☐ 14" non-interlaced SVGA Monitor
- ☐ 2 Serial/1 Parallel/1 Game Port
- ☐ Quad speed CD-ROM
- ☐ 16-bit sound card and speakers
- ☐ Logitech 2-button Mouse w/Pad
- ☐ MaxiSwitch NOVA 101 Keybaord
- ☐ Mini tower with Power Supply

486-66	**$1,080**
486-100MHz	**$1,135**
5x86-100MHz	**$1,189**

Networks

NetWare 3.12 5 user	$430
NetWare 3.12 10 user	$1,098
NetWare 3.12 25 user	$1,389
NetWare 3.12 50 user	$1,825
NetWare 4.1 5 user	$415
NetWare 4.1 10 user	$779
NetWare 4.1 25 user	$910
NetWare 4.1 50 user	$1,226
9-port 10BaseT Ethernet Hub	$114
12 port Ethernet Hub	$215
Switch Hub	Call
16-bit Ethernet combo	$32
SMC EtherEZ combo	$78
3COM PCI COmbo (10 Mbit)	$100
3COM PCI Pro/100	$155
Intel EtherExpress PCI Pro/10	$93
Intel EtherExpress PCI Pro/100	**$98**

Options

Multi-Media Kit Qual Speed CD-ROM 16-bit sound card two 12 watt speakers	**$175**
28.8kbps Internal modem	$120
US Robotics int. 28.8kbps	$187
Toshiba 4X SCSI CDROM	$210
Plextor 4X SCSI CDROM	$324
Plextor 6X SCSI CDROM	$479
Colorado 800MB tape drive	$180
Colorado 1.4GB tape drive	$240
HP 35480 2GB SCSI DAT	$720
HP JetDirect 2550A	$295
HP JetDirect EX Plus 3	$369
Intel NetPort EL	$320

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Internet Plug & Play Server

- ☐ Intel Pentium® processor
- ☐ 256K cache, 16MB memory
- ☐ 1.2GB EIDE hard drive
- ☐ 1.44MB TEAC Floppy Drives
- ☐ PCI Graphics w/1MB
- ☐ 14" Non-interlaced .28mm SVGA
- ☐ 16-bit Ethernet card
- ☐ 2 Serial (high speed),1 parallel port
- ☐ Logitech 2-button Mouse w/Pad
- ☐ MaxiSwitch NOVA 101 Keyboard
- ☐ Middle tower with Power Supply
- ☐ **Linux OS** installed & configured
- ☐ **Web Server, FTP server and EMail**
- ☐ **ISDN/Router Optional**

100MHz	**$1,825**
120MHz	**$1,875**
133MHz	**$2,060**

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Setup and Consultation

Consulting services on

- ☞ **Internet service provider selection**
- ☞ **Hardware/software selection**
- ☞ **Security firewall design/setup**
- ☞ **WWW Server/Email/FTP Setup**
- ☞ **WWW Home Page design**
- ☞ **ISDN/Frame Relay/TI set up**

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- Network Design, Installation & Training
- Turnkey Solution/System Integration
- **Internet** Connectivity Solution
- Top-Notch Expertise/Support in Novell Netware, UnixWare, Windows NT, SCO UNIX/ODT, Solaris, Lantastic & TCP/IP Networking

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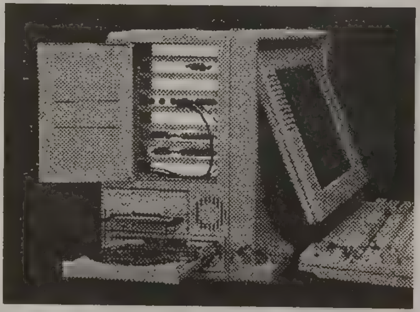
Multimedia Speaker



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- 8 Expansion Slots
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VGA COLOR LCD

- 512 Colors (TFT)
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- 6 Expansion Slots
- Accepts Any Baby Size Motherboard
- Paper White, Passive Color & Active Color Also Available
- Any Performance Ext. VGA Monitor
- 4 Drive Bays For Storage Devices
- Simultaneous Ext. CRT Display
- Detachable 102/103 Keyboard

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Fax: (510) 770-9060

Dealer Inquiries Welcome

Web Page Listings *continued*

ties. [Exp. #146.]

Hobby

Interpet Antique Shop *http://www.tias.com/antiques/* Lots of resources for people interested in antiques and collectibles. [Exp. #146.]

CPS

Just Computers! *http://www.businessl.com/justcomp/* Online catalogue of Linux distributors, Linux books, Internet books, Linux applications, and more. [Exp. #146.]

BS

KSB Consulting, Inc. *http://www.ksb8.com/* Microsoft Fall Series Seminars, shop at KSB CyberMall, advertise your services or products with us. [Exp. #147.]

C

National Center For Employee Ownership *http://www.esop.org/~nceo* Information on employee stock ownership plans (ESOPs) and other forms of employee ownership. [Exp. #148.]

Travel

NTA Tour And Travel Shoppe *http://www.travelfile.com/ntatours* For information on packaged leisure travel products. [Exp. #146.]

Hobby

Numismatists Online *http://www.numismatists.com/* Numismatists Online, interactive rare coin auctions on the Web. A proven forum for Internet-based commerce. [Exp. #148.]

O

Proto Systems *http://www.greatinfo.com/proto/* An interesting mini-mall featuring a self-help bookstore, an electronic Medical Billing service, a computer store, and a credit card store. [Exp. #148.]

HRE

R.E.InfoNet—Real Estate Information Network *http://www.reinfonet.com/* An excellent resource for both buyer and sellers. Articles as well as homes for sale. [Exp. #146.]

CPS

rTs Computers Systems Home Page *http://www.rtscomp.com/~pouncy/* Designed to help local users find businesses in the community. [Exp. #146.]

Employmt

Saludos Career Web *http://www.hooked.net.saludos/* Devoted exclusively to promoting Hispanic careers and education, supported by Saludos Hispanos magazine. [Exp. #146.]

Edu

Scholarship Select *http://www.coolware.com/bullseye/* This site describes a new CD-ROM for Windows that documents eighty thousand scholarships. [Exp. #148.]

BS

SCOR-Net *http://www.scornet.com/* The Small Corporate Offering Registration Network. Dedicated to capital formation issues for small businesses. [Exp. #147.]

C

SemiWeb *http://www.semiweb.com/* An expo and resource center for the semiconductor industry. Keeps users on the leading edge. [Exp. #148.]

HRE

Smart Real Estate Investor *http://www.webcom.com/~smartrei/* Fast, comprehensive program for evaluation of all rental/income properties. Download working model. [Exp. #148.]

C

Soprano Connections *http://www.soprano.com/* Tired of junk links? Try our more than one thousand smart links. [Exp. #148.]

BS

TechExpo *http://www.techexpo.com/* Calendar of science and engineering conferences, directory of hi-tech companies and technical societies, as well as a technical information center. [Exp. #148.]

Employmt

Television Careers *http://www.bookfair.com/welcome/televisioncareers* Describes net insider's guide to landing a job in television. Includes sample chapter. [Exp. #146.]

CR

Used Computers *http://www.usedcomputer.com/* Nearly one thousand dealers who buy, sell, and trade used computer equipment. Well indexed for quick access. [Exp. #147.]

I/F

The Virtue Of Selfish Investing *http://www.value.net/~vsi* Newsletter service for growth stock investors—annualized 34.5% year returns from 1/91–6/95. [Exp. #146.]

Weddings Online *http://weddings-online.com/* The Internet's largest marketplace of wedding services and information. Over twenty five categories to choose from. [Exp. #148.]

Bus Opps

The World Of Opportunity *http://www.gate.net/~worldop/* A collection of business opportunities ranging from franchises to vending, multilevel marketing, and many others. [Exp. #146.]

ENTERTAINMENT

Dating

Amigos Contact Service *http://www.kegel.com/amigos* Find a friend or mate near you. Free, safe, convenient way to reach thousands of local people. [Exp. #148.]

E

Artist Bros. Enterprises *http://www.cyberverse.com/~piero/artbros.html* Episodic series, comedy, sci-fi, and romance stories; Mighty Morphin Power Rangers information; and other interesting links. [Exp. #146.]

E

Atomic Eye *http://www.atomiceye.com/atomic/* Join the continuing adventures of Scuff & Pineapple throughout the metropolis of Los Angeles. [Exp. #148.]

E

Baudville *http://www.bville.com/* The scenic route on the Information Superhighway. Art, entertainment, and advertising. [Exp. #147.]

Music

Beatle Link *http://pages.prodigy.com/CA/mervis/beatle.html* A Web site designed to easily access Beatle sites throughout the world. [Exp. #148.]

BS

Big Mouth Publishing *http://www.bookfair.com/publishers/bigmouth/biz/* Publishers Page featuring audio "Instant Guts!", guide to intelligent risk taking in business, creativity, relationships. [Exp. #146.]

Erotica

Bikini Net *http://www.bikininet.com/* This is the place where adventurous adult men and women can explore quality glamour photography and check out photos for The Girls of Paradise Bikini Challenge. [Exp. #148.]

E

BONG Bull *http://www.au.com/bong/* Weekly encyclical of the Burned-Out Newspaper creatures Guild. Newsroom humor for journalists and media

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- Lithium Ion Battery/ plug & play(910/950N)
- Intelligent Power Management smart point mouse
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Processor	Screen	HD	Price
486DX2/50	10.4 Dual Scan	340MB	$1699
486DX4/75	10.4 Dual Scan	510MB	$1899
486DX4/75	10.4 Active Clr	500MB	$2499
PENTIUM 75	10.4 Dual Scan	500MB	$2299
PENTIUM 90	10.4 Active Clr	500MB	$CALL

Ascentia™ 900N

Processor	Screen	MEM/HD	Price
486DX4/75	10.4 Active Clr	8/500MB	$2299
486DX4/75	10.4 Dual Scan	8/500MB	$1799
486DX2/50	10.4 Dual Scan	4/340MB	$1399

Advantage Explorer

- 4MB RAM
- 3.5" Floppy Drive
- Integrated Pointing Device
- 1 PCMCIA Type II Slots or 1 Type III

Processor	Screen	HD	Price
486SX/25	9.5 Mono	120MB	$799
486SX/25	8.5 Active Clr	170MB	$1099
486SX/33	9.5 Mono	200MB	$899
386sl/25	9.5 Mono	60mb	$699

Advantage NB

- 4MB 3.5" Floppy Drive
- Integrated Pointing Device
- Pax Modem NO PCMCIA slot

Processor	Screen	HD	Price
486SX/33	9.5 Mono	120MB	$799

Power Exec

- 4MB RAM
- 3.5" Floppy Drive
- 2 PCMCIA Type II Slots or 1 Type III

Processor	Screen	HD	Price
486SI/dx 25	9.5 Mono	120MB	$899
486sl/dx 25	9.5 Active Clr	200MB	$1199

Ascentia 810N

- 4MB RAM
- 3.5" floppy drive
- 2 PCMCIA Type II Slots or 1 Type III

Processor	Screen	HD	Price
486dx2/66	10.3 dualsca	250MB	$1399
486dx2/66	10.3 dualsca	510MB	$1499

UNISYS 386SL/25	9.5Passive Clr	120	$799

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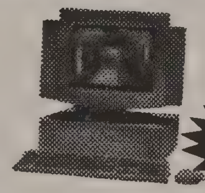
- carrying case 9.5" OR 10.4" Screen
- (dx4/75 built in sound/Audio/ Mic/ Speakers)
- integrated trackball 2 pcmcia type II or1 type III

Processor	Screen	HD	Price
486dx2/66	Mono	200MB	$899
486dx2/66	Dualscan	200MB	$1099
486dx2/66	Active	340mb	$1299
486dx4/75	Mono	340MB	$999
486dx4/75	Dualscan	260MB	$1399
486dx4/75	Active	8/540MB	$1699
PENTIUM 75	Dualscan	8/540MB	$2499

DAUPHIN 486SL-25 DTR1 6MB RAM 40 HD MONO SUB NOTEBOOK	$499
KODAK PHOTO CD PORTABLE M 50	$129
AST DOCKING STATION/EASY PORT/BATTERY	CALL
HP DESKJET POTRTABLE 310 BATTERY	$19
101 PS/2 SPANISH KEY BOARD	$19
4 GIG HARD DRIVE 5.25 FULL HIGHT 12MS	$499
IBM THINKPAD/ POWER EXEC AUTO ADAPTER	$69
APPLE LASER PRINTER 300	$249
AMBRA DESKTOP 486 DX2/50 4/270 MB 1.44 DOS WIN MOUSE	$499
AT&T NOTEBOK 486DX4/75 4/340 DUALSCAN COLOR	$1399
THINKPAD 486SX/33 4/170 DUAL SCAN COLOR	$1299
THINKPAD 730T 486SX/33 8/NO HD 4 PCMCIA MONO	$899



Packard Bell.

DESKTOPS AS LOW AS $799

Packard Bell Desktop

- 4 MB RAM 16Bit Sound Card
- 3.5" Floppy Drive
- Keyboard, mouse
- Pre- loaded software
- ONE YEAR WARRANTY
- 14" SVGA Color Monitor

Processor	CD-Rom	HD	Price
486SX2/50	2X CD	420 MB	$799
486DX2/66	2X CD	340 MB	$799
486DX2/66	2X CD	420 MB	$849
Pentium 60	2X CD TV	8/850MB	$1349

AST COMPUTER

DESKTOPS AS LOW AS $799

Multimedia system with Pentium®

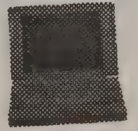
- 8MB Ram
- 3.5" Floppy Drive
- PCI/ IDE 1MB VRAM UP TO 1024X768
- 16 Bit Audio/ Mic/ Speakers
- 14.4 Fax/ Data/ Voice modem
- AST Keyboard, mouse
- 14" SVGA Color Monitor
- 1 Year in store Warranty

Processor	CD/ Acc.	HD	Price
Pentium 60	2X CD	540MB	$1149
Pentium 60	4X CD	540MB	$1249
Pentium 75	4X CD	1080MB	$1599
Pentium 100	4X CD	1080MB	$1999

Multimedia system

- 4MB Ram
- 3.5" Floppy Drive
- VLB 1MB VRAM UP TO 1024X768
- 16 Bit Audio/ Mic/ Speakers
- 14.4 Fax/ Data/ Voice modem
- AST Keyboard, mouse
- 14" SVGA Color Monitor
- 1 Year in store Warranty

Processor	CD/ Acc.	HD	Price
486DX2/50	2X CD	420	$799
486DX2/66	2X CD	540	$899
486DX2/66	4X CD	540	$999
486DX4/100	2XCD	420	$1049



$1099

Apple

POWERBOOK 520/520C

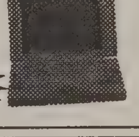
$1299

- 9.5" SCREEN
- 4MB RAM 160HD OR 240
- NIMH BATTERY
- BUILT IN TOUCH PAD MOUSE
- 90 DAYS OR ONE YEAR WARRANTY

ACER NOTEBOOK

- 9.5 Brilliant Display
- 4MB RAM
- 120 or 340 or 540 MB Hard Drive
- 3.5" 1.44MB Floppy Drive
- PCMCIA Type II Slot
- Integrated Track Ball Mouse
- Dos & Windows
- 90 days Warranty

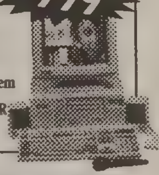
486 sx/25 4/120 9.5 DUAL SCAN COLOR $999



486 dx4/75 4/340 dual scan color $1299

IBM aptiva MULTIMEDIA

$999



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- DOUBLE SPEED CD
- DOS, Win, more fax/modem
- 14" SVGA COLOR MONITOR

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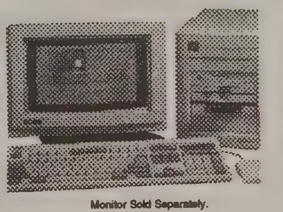
- VLB OR PCI Local bus graphics
- Two case available desktop or mini tower

MS MODELS	RAM/HDD	MFG#	PRICE
MST P75MHz	16/1GB	501703-401	$1499
MSP120MHz	16/1.6GB	501814-601	$2199
MS P90MHz	8/420MB	501534-201	$1199
MSL 90MHz	16/1GB	501651-401	$1599
MST P90MHz	16/1GB	501660-401	$1799
MS P75MHz	8/540MB	501701-401	$1099
LC DX4/100	8/540MB	501381-007	$999
MS DX4/100	4/0MB	501443-001	$899
LC 486DX2/66	4/210MB	501116-001	$799
MS 486 4/50	4/0MB	501441-001	$599
LP 486 4/33	4/170MB	501175-006	$399

AST COMPUTER

intel inside



Monitor Sold Separately.

PremiaGX/Manhattan

- 486/33MHz through 100MHz pentium®
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- 4mb/8mb or 16 mb Ram
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- Two case available desktop or mini tower

MODELS	RAM/HDD	MFG#	PRICE
Manhattan p60G	16/0MB	501530-001	$1199
Server 486DX/33	8/1GB	501200-007	$899
GX PENTIUM 100	16/0MB	501522-101	$2299
MX DX4/100	8/420MB	501432-201	$1099
MX PENTIUM 75	8/540MB	501699-201	$1299
MX PENTIUM 60	8/0MB	501577-001	$1099
MTE 486DX2/66	8/0MB	501206-005	$899
EXP/MT P60	8/420MB	501422-001	$1099

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Models	Processor	RAM/HD	CD	Price
475 14"	68lc040	4/160	NO	$599
630 14"	68lc040	4/250	NO	$699
635 14"	68lc040	4/250	YES	$899
630 14"	68lc040	8/250	YES	$999
636 14"	68lc040	8/250	YES	$1049
631 14"	68lc040	8/500	YES	$1099
638/TV/15"	68lc040	8/350	YES	$1199
6118/15"	POWER PC 60	8/500	YES	$1499
6117/15"	POWER PC 60	8/700	YES	$1499
8100/110	POWER PC	16/2GB	YES	$2599

Radius 0381 20" Color Monitor	$1199
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Web Page Listings *continued...*

junkies. [Exp. #146.]

Ent

Boulevards *http://www.boulevards.com/* Quality information about arts, entertainment, and contemporary culture and politics in cities around North America. [Exp. #147.]

Ent

Burn:Cycle *http://www.burncycle.com/* Explore the wicked world of Burn:Cycle. Use your brain or lose your mind. [Exp. #146.]

Music

Cajun/Zydeco Web Resources *http://www.slip.net/~arubinst/index.html* A selected, annotated list of Cajun/Zydeco music, dance, and cultural Web resources, including detailed Bay Area info and calendar of events. [Exp. #148.]

F/T

California Shakespeare Festival's *http://www.via.net/~csf/* Complete information about this season's performances as well as our year round programs. [Exp. #146.]

Ent

Castle Wolfric *http://www.best.com/~wooldri/* Sci-Fi Fantasy links, Xanth home page, Trek images, html Writers Guild, and more. [Exp. #146.]

Music

Classical CD Scout, Web Edition *http://www.cdscout.com/cdscout/* Lively but sophisticated review of classical recordings—reviews, articles, and features. [Exp. #148.]

Cyberpet *http://www.cyberpet.com/* To boldly go where no pet fancier has gone before. Dogs galore! [Exp. #148.]

Erotic

Cybertzara *http://www.webcom.com/~cybertza/* Multimedia by Debroah Jaffe's Master/Slave Relationship and her new CD-ROM, Smut Picture Racket. [Exp. #146.]

Ent

Edward "Equaliser" Woodward *http://www.deltanet.com/bazaar/equalize.htm* Information and enthusaists' group. Stay up to date with other fans, the Eq/EW International Bullet, and more. [Exp. #146.]

The electronic Gourmet Guide. *http://www.deltanet.com/2way/egg* The eGG is the Internet's first full-color food magazine featuring interviews, articles, recipes, columns, news, and links. [Exp. #148.]

F/T

Fadein *http://users.aol.com/anniraff/* Access site for FADEIN, freeware version of how-to screenwriting book; also other screenwriting links. [Exp. #147.]

Art

A Film, Pen, & Brush Conspiracy! *http://www.primenet.com/~fundi/index.html* An Afrocentric byte from the cyber gallery of graphics, photos, and stories from HATARI's Design. [Exp. #146.]

Ent

Flames Magazine *http://www.gold.net/flames/* Flames Web Page features an interactive story that uses the hypertext capabilities of the WWW to achieve multiple narratives. [Exp. #146.]

Ent

FLASHERS *http://www.cais.com/artcomic.flashers/html* Daily comics by Elliot Feldman. Bring your own trenchcoat. [Exp. #146.]

Music

Freshly Baked Cooked Book *http://www.primenet.com/~freshly/* L.A.-based psychedelic blues/funk/gazz/reggae/blue grass/punk bank. This site contains artwork, lyrics, sound clips and recipes. [Exp. #146.]

Sports

Gold Sheet Sports Page *http://www.goldsheet.com/* Provides useful, in-depth, and timely information in the field of sports gambling. [Exp. #148.]

Ent

The Happy Happy Joy Joy Web Site *http://www.infinet.com/~ngsippel/hhjj.html* Classic Ren & Stimpy fans should check this out. Remember when R&S was good? We do. [Exp. #147.]

Hotnet Entertainment *http://starone.com/hotnet* Adult entertainment. Twenty-one and over are welcome. [Exp. #146.]

Music

HotPlatters *http://www.earthlink.net/~oversight/HotPlatters.html* Vinly LP's: R 'n' R, Comedy, Country, Folk, Personalities, R&B, Soundtracks, music related books, and paper goods. [Exp. #148.]

Erotica

Interact *http://diversion.com/* The place for Live Chat and Multiplayer games. Adults only. [Exp. #148.]

Ent

Irvine Harvest Festival 95 *http://www.deltanet.com/bazaar/harvest.htm* Festival activities, entertainment schedules, festival map, and discount coupon to the festival. [Exp. #146.]

Dating

K-Fone's Hot Interactive Voice BBS And Party Place *http://www.kfone.com/* Browse men and women throughout Southern California. Contact them free. Learn more about voice mail and more. [Exp. #146.]

Art

Kaleidospace Independent Internet Artists *http://kspace.com/* Promotes, sells, and places work by independent artists, musicians, writers, performers, filmmakers, and software developers. [Exp. #147.]

Ent

The Kinte Space *http://users.aol.com/Wilhite213/kinte.html* A quasi-monthly publication of literary presentations downloadable as free multimedia PC applications. [Exp. #147.]

Sports

Lancaster Professional Baseball Club *http://www.av.qnet.com/~reggieb/baseball.html* Follow the California League's newest Class A baseball team. Affiliated with the Seattle Mariners. [Exp. #146.]

Dating

Match.Com *http://www.match.com/* Internet matchmaking! Browse photos & personal profiles, email & match by category and location; over 30,000 members worldwide! [Exp. #148.]

Music

Merger *http://www.wp.com/Merger/home.html* L.A. area original Rock and Roll band. Info about the band and upcoming gigs. [Exp. #146.]

F/T

Montreal World Film Festival *http://www.ffm-montreal.org* Site for the Montreal World Film Festival: bi-lingual descriptions, filmographies, schedules. [Exp. #146.]

F/T

Movies.net *http://www.movies.net/* The simplest movie address in cyberdom. Comprehensive, industry directory. Showtimes, promo's, reviews, previews, and more! [Exp. #146.]

Music

nebulae *http://www.nebulus.com/* Nebulous music for nebulous times. [Exp. #148.]

Ent

NewType Gaming Magazine *http://www.newtype.com/NewType* Filled with information on graphic video games and virtual reality. Free stuff, latest news, and ravs in an eye-popping 3-D rendered environment. [Exp. #146.]

Erotic

Nikkita's Ourtagious Fantasies *http://www.hooked.net/users/xxx* See Nikkita, a Bay Area stripper, and read some of her stories. Adult entertainment. [Exp. #148.]

F/T

One Live To Laugh *http://westworld.com/~nosnorba/* Independent film about a boy with dyslexia trying to make it in the stand-up comic world. [Exp. #147.]

Ent

Pun Master *http://www.punmaster.com/* [Exp. #148.]

Art

PureArtMarket *http://www.PureArtMkt.com/* Unfiltered entertainment on the Internet. A place where emerging filmmakers, musicians and other artists distribute their work. [Exp. #148.]

Music

Rocktropolis *http://underground.net/Rocktropolis* Visitors can attend chat sessions with musicians, hang out backstage, hear new songs, send in photos, and much more. [Exp. #146.]

Music

RockWeb Interactive *http://www.rockweb.com/* Interactive music service, band home sites, chat, WebZine, interviews, and concert calendars. [Exp. #146.]

F/T

San Francisco's Best Of Broadway *http://www.bwaytheatresf.com/* A comprehensive Web site on the Best of Broadway series at San Francisco theatres. Learn more about current and upcoming shows, the theatres, and how to purchase tickets. [Exp. #148.]

Books

Science Fiction Now *http://www.science-fiction.com/* Buy, sell, and rate the science fiction stories from around the country and the globe. [Exp. #146.]

Erotic

Sexy Internet Playmates *http://www.well.com/user/sexymate/* An adult entertainment Web site featuring a great library of photos and many user-interactive features, and more. [Exp. #148.]

Ent

SFbuzz *http://www.soos.com/sfbuzz/* San Francisco theatre and movie reviews, with the latest gossip and links to San Francisco. [Exp. #147.]

Travel

Split *http://www.split-news.com/nomad/* Whet your wonderlust with Split's new blend of international travel news, views, and reviews. [Exp. #148.]

Tripod *http://www.tripod.com/* Ready for the real world? Tripod provides tools for life—travel, money, health, living, work, and community. [Exp. #147.]

Ent

TV Net. *http://tvnet.com/* TV chat, fourms, and jobs. All available TV Show links. [Exp. #148.]

Books

Tymon's Try-B4-Buy Book Club *http://www.av.qnet.com/~frank/index.html* Free access to Tymon's Tirades. Synopses, original books (250 page+) on parenting, politics, science fiction, fantasy, and programming. [Exp. #148.]

Ent

The Unofficial Heckler And Koch USP Home Page *http://www.primenet.com/~tlau/usp/usp.html* Info on the H&K USP pistol and general information of interest to all shooters. [Exp. #148.]

Windows OnLine *http://www.cris.com/wol/* Home of Windows OnLine (BBS), which publishes the WinOnLine Review (online magazine)—commercial and shareware reviews. [Exp. #148.]

Ent

World Conquest *http://dnai.com/~conquest* Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #146.]

Ent

XCENTRIX *http://www.servtech.com/public/sprocing* An ecletic zine integrating a plethora of genres including art, music, fashion, gossip, drag queens, and more. [Exp. #146.]

Sports

Zeeters International Pools *http://www.zeeters.co.uk* British Expatriates and other overseas fans of British Football can now play the British Football Pools on the Internet. [Exp. #148.]

Ent

The ZenMOO Home Page *http://www.zennet.com/html/zenmoo.html* Amid the sounds of chanting and gongs, you have come upon the glorious ZenMoo. [Exp. #146.]

ORGANIZATIONS

American Cancer Society *http://www.ca.cancer.org/* The American Cancer Society will debut the Web site launch with a new tobacco control campaign, the "Great American Smoke-Screen," aimed at young people ages 9-15. [Exp. #148.]

American Film Institute *http://www.afionline.org/* AFI's Web site provides users with information about the institute's programs and activities, including the AFI Conservatory. [Exp. #147.]

Bay Area Volunteer Information Center *http://www.meer.net/users/taylor/* Lists hundreds of volunteer opportunities with San Francisco Bay Area non-profit organizations. [Exp. #148.]

California Association of Residential Care Homes *http://www.hooked.net/users/rallap/* Santa Clara County Chapter operates a free referral line to refer elderly residents who can't live alone but are not ready for a nursing home. [Exp. #148.]

Cub Scout Pack 813 *http://www.ccnet.com/~sparks/* A resource link for Cub Scout requirements. Also Pack 813 awards, committee members, and pack plans. [Exp. #148.]

DEC User Group *http://www.decus.org/* National DEC User Group. [Exp. #148.]

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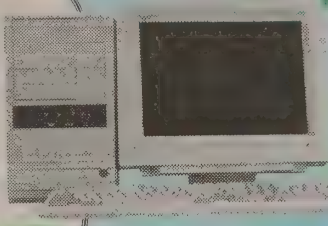

- *Intel Triton Chipset M.B., 256K Cache
- *Supports Mode 4 Timings
- *256K Pipeline Burst Cache
- *8 MB EDO Memory, 72 pins
- *635 MB IDE Hard Drive
- *15" SVGA Monitor 1280x1024 .28 NI
- *PCI 64 Bit 1 MB Video Card
- *PCI EIDE (4HD, 2 FD) + 16550 I/O
- *1.44 MB Floppy Drive
- *Quad Speed CD-ROM Drive
- *Sound Blaster 16 Sound Card
- *50W Amplified Speakers
- *Microsoft Compatible Mouse
- *101 Enhanced Keyboard
- *Mini Tower Case w/230W Power Supply
- *Windows 95 or DOS 6.22 + Win 3.11

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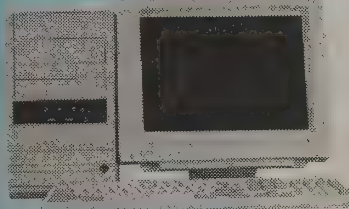
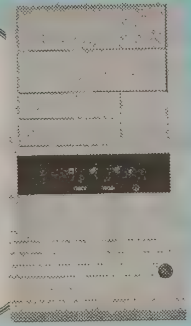


- *AMD Enhanced 486 CPU with Write Back Cache (For 486DX4-120 Systems Only)
- *Motherboard with 256K Cache
- *4 MB 72 Pin RAM
- *635 MB IDE Hard Drive
- *14" SVGA Monitor 1024x768 .28 NI
- *VLB 1MB SVGA Video Card
- *VLB EIDE (4HD, 2 FD) + 16550 I/O
- *1.44 MB Floppy Drive
- *Double Speed CD-ROM Drive
- *Sound Blaster 16 Sound Card
- *50W Amplified Speakers
- *MS compatible Mouse & 101 Keyboard
- *14.4 Fax/Modem w/Internet Software
- *Mini Tower Case w/230W Power Supply
- *Windows 95 or DOS 6.22 + Win 3.11

AMD 80 MHz $1069 / AMD 120 MHz $1139 / INTEL CALL

BAREBONE SYSTEMS



PENTIUM® 75
- *Intel Pentium 75 CPU
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- *Optional Pipeline Burst Cache
- * [illegible] Memory
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- *Mini Tower Case w/230W Power Supply
- *1.44MB Floppy Drive

PENTIUM 75 $689

486DX2-80
- *AMD 486DX2-80 CPU
- *Motherboard with 256K Cache
- *4 MB 72 Pin RAM
- *VLB 1 MB SVGA Video Card
- *VLB EIDE (4HD, 2 FD) + 16550 I/O
- *Mini Tower Case with 230W Power Supply
- *1.44MB Floppy Drive

486DX2-80 $369

CHAPLET 820 NOTEBOOK (CD-ROM Upgradable)

- *Intel 486 DX4-100 CPU
- *4MB RAM Upgradable to 36MB
- *540MB IDE Hard Drive
- *Exchangeable CD-ROM Optional
- *Exchangeable 1.44MB FDD or 2nd Battery (optional)
- *Dual Scan Color Screen (Active Screen Optional)
- *32-Bit VLB Video 1MB
- *16-Bit Stereo Sound Card
- *2 Type II or 1 Type III Slots
- *PointPad Pointer
- *NiMH Battery (2.5-3 Hours)

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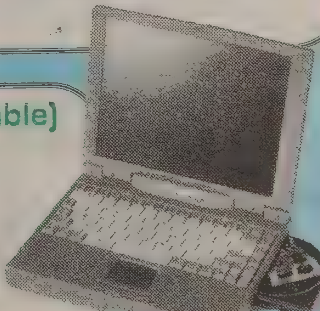

- *Intel Pentium CPU
- *8MB RAM Upgradable to 40MB
- *540MB IDE Hard Drive
- *Exchangeable CD-ROM Optional
- *Exchangeable 1.44MB FDD or 2nd Battery (optional)
- *Dual Scan Color Screen (Active Scr. Opt.)
- *32-Bit PCI Video 1MB
- *MPEG Card Optional
- *16 Bit Stereo Sound Card
- *2 Type II or 1 Type III Slots
- *PointPad Pointer
- *NiMH Battery (2 Hrs)

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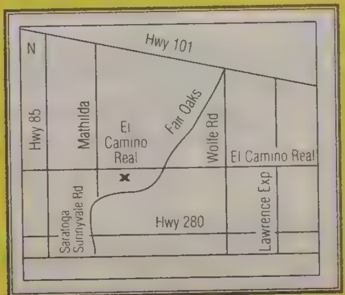

Online Guide

Web Page Listings *continued...*

Intellectual Property Creators *http://www.best.com/~ipc/* An organization of seasoned inventors interseted in patent enforcement and public policy issues. Fifty page website on patent other inventor issues. [Exp. #148.]

Irish Network Of Northern California *http://reality.sgi.com/csp/IrishNet/* For those interested in all things Irish; business, social, cultural events in the Bay Area. [Exp. #148.]

Lawrence Livermore National Labortaroy Test Site *http://www.llnl.gove/remoteTEST* The new home page for one of the nation's premier science facilities is packed with digital videos and photos to provide an eye-opening excursion into the sometimes dramatic world of scientific experimentation. [Exp. #148.]

Make A Wish Foundation *http://www.wish.org/* Helping terminally ill children live a dream. You can help, find out how. [Exp. #148.]

The Medical Marketing Association *http://www.mmanet.org/* MMA is the leading organization providing personal, professional, and educational growth opportunities for people interested in the marketing of medical products and services. [Exp. #148.]

S

N.A.A.F.E.T.E.E. *http://www.ijs.com/naafetee/* North American Association For Exports To Eastern Europe is an association of exporters and importers to/from Eastern Europe. [Exp. #148.]

The New Reality *http://www.globaldrum.com/sopdu* This site introduces a whole new reality on spirituality. The New Reality is a nonproft corporation organized to distribute message of freedom to all who can hear. [Exp. #148.]

Palo Alto Montessori School *http://www.slip.net/~jamila/Pams/* Preschool and child care facility established to develop the child to his/her full potential. [Exp. #148.]

PC User's Group of the Redwoods, Santa Rosa, CA. *http://www.sonic.net/pcugr/* Membership information, announcements, calendar of events, SIGs, other user groups in Northern CA and the world. [Exp. #148.]

Sequoia High School Alumni Association Online *http://www.belmont.gov/orgs/alumni/shsaa.html* Alumni information for three SF Peninsula high schools: Sequoia, San Carlos, and Ravenswood. [Exp. #148.]

PERSONAL HOME PAGES

April's Cell Tech Page *http://www.calypso.com/april* A great location to visit to learn more about Health and Wealth Opportunities with Super Blue Green Algae. [Exp. #146.]

Belligerence WEB Page *http://www.directnet.com/~fredm/planet.html* The Belligerence Connection. Graphic art, show times, and information. Download Belligerence sound clips. [Exp. #148.]

Bill Flinn's Home Page *http://users.aol.com/Gonzo13038* An ever changing assortment of links to human resources research, aviation, and cool web pages. [Exp. #148.]

Pers

Bob Koster's Home Page *http://www.leonardo.net/rkoster/* My URL is history, classic cars, classic music, cave paintings, and cinema and its history. [Exp. #146.]

Crunchman *http://www.well.com/user/crunch/* Home page for John Draper, includes information on Web authoring services and lots more. [Exp. #148.]

Doug Michael Home Page *http://www.ccnet.com/~dmic27* This site deals with original music by composer Doug Michael and includes sound samples, release info, and cool music links. [Exp. #146.]

Ed's Web Place *http://www.netgate.net/~embier* Find interesting links to my favorite topics: scuba, movies, sports, send me email. [Exp. #147.]

Grif

Follow Your Heart: The Writings And Philisophy Of Ivan Hoffman *http://www.earthlink.net/~ivanlove* Seeking love and spiritual peace? Check out Hoffman's books and a free Column. [Exp. #148.]

Ent

Garden Of Eden *http://www.hooked.net/users/immortal/* High traffic adult site. Advertise your business or page here. Sex, psychics, technology. [Exp. #148.]

Garden Songs *http://www.geopages.com/Paris/1416/soos.html* Poetry by SOOS (Strong Opinions On Success). [Exp. #146.]

Greg Bulmash's Humor Page *http://www.earthlink.net/~gregoire/* A bi-weekly humor magazine/homepage with original work from Greg and others. [Exp. #148.]

H, N, Gov

Greg's Point Reyes Wild Life Home Page *http://users.aimnet.com/~winter/ptreyes.htm* Wild life that can be seen at or near the Point Reyes National

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ICS P5-Endeavor

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- ⇒ **TRITON Chipset**, 256K/512K **Synch** Cache
- ⇒ **16MB** RAM **-60ns** SIMMS
- ⇒ **Adaptec 2940W Fast/Wide** Controller
- ⇒ **Seagate ST31230W 1GB 9ms WSCSI** HD
- ⇒ **ATI Proturbo 64** w/**2MB VRAM**
- ⇒ ExView **15"** Monitor **.28dpi LR** **1280x1024 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
- ⇒ **Built-in SB16 Sound Card**

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Pentium® 100 chip	$ 2,799
Pentium® 120 chip	$ 2,899
Pentium® 133 chip	$ 3,099

ICS P5-Atlantis

- ⇒ **Intel Atlantis** PCI Motherboard
- ⇒ **TRITON Chipset**, 256K/512K **Synch** Cache
- ⇒ **16MB** RAM **-60ns** SIMMS
- ⇒ **Adaptec 2940W Fast/Wide** Controller
- ⇒ **Seagate ST31230W 1GB 9ms WSCSI** HD
- ⇒ **Built-in ATI Mach64** w/**2MB DRAM**
- ⇒ ExView **15"** Monitor **.28dpi LR** **1280x1024 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
- ⇒ **Built-in SB16 Sound Card**

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Pentium® 90 chip	$ 2,559
Pentium® 100 chip	$ 2,599
Pentium® 120 chip	$ 2,699
Pentium® 133 chip	$ 2,899

ICS P5s-Zappa

- ⇒ **Intel Zappa** PCI Motherboard
- ⇒ **TRITON Chipset**, 256K Cache
- ⇒ **16MB** RAM **-60ns** 72PIN SIMMS
- ⇒ **Adaptec 2940W Fast/Wide** Controller
- ⇒ **Seagate ST31230W 1GB 9ms WSCSI** HD
- ⇒ **ATI Proturbo 64** w/**2MB VRAM**
- ⇒ ExView **15"** Monitor **.28dpi** (17" at .26dpi) **1280x1024 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

Pentium® 75 chip	$ 2,499
Pentium® 90 chip	$ 2,559
Pentium® 100 chip	$ 2,599
Pentium® 120 chip	$ 2,699
Pentium® 133 chip	$ 2,899

ICS P5i-MMedia

- ⇒ **Intel Atlantis** PCI Motherboard
- ⇒ **TRITON Chipset**, 256K Cache
- ⇒ **8MB** RAM **-60ns** 72PIN SIMMS
- ⇒ **Western Digital 1.2GB 10ms Hard Disk**
- ⇒ **Built-In ATI Mach 64 Graphics Accelerator** w/**2MB DRAM**
- ⇒ ExView **15"** Monitor **.28dpi**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
- ⇒ **Built-In Sound Blaster 16 Soundcard**
- ⇒ **Toshiba 4X IDE CD-ROM**

Pentium® 75 chip	$ 1,799
Pentium® 90 chip	$ 1,859
Pentium® 100 chip	$ 1,899
Pentium® 120 chip	$ 1,999
Pentium® 133 chip	$ 2,199

*** Multimedia *** *** Upgrades ***

SoundBlaster 16**ASP**, **2X CDROM** Drive, **120W** Speakers, **Microsoft** Home Title CDs	**$249.95**
SoundBlaster 16**ASP**, **4X CDROM** Drive, **120W** Speakers, **Microsoft** Home Title CDs	**$349.95**

ICS P5 - Server

- ⇒ **SuperMicro** PCI Motherboard
- ⇒ **TRITON Chipset**, 256K/512K **Synch** Cache
- ⇒ **32MB** 60NS 72PIN **EDO** RAM
- ⇒ **Adaptec 3940W Dual-Ch. Fast/WidePCI**
- ⇒ **Seagate ST15150W 4.3GB 8ms WSCSI** HD
- ⇒ TEAC 1.44 Floppy,
- ⇒ Full Tower Case w/300W
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP
- ⇒ Tested with **Windows NT, BackOffice, BSDI, Novell, SCO, Solaris and Unixware**

Pentium® 133 mhz chip

$4,899

ICS 486 PCI

- ⇒ **486 PCI GREEN MOTHERBOARD**
- ⇒ 256K Cache - optional 512K Cache
- ⇒ 4MB RAM - 60ns 72PIN SIMMS
- ⇒ **Quantum 540MB 11ms Hard Disk**
- ⇒ ATI Mach 32 w/1**MB DRAM**
- ⇒ ExView **14"** Monitor **.28dpi** **1024X768 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

486DX2/66	$ 949
486DX2/80	$ 959
486DX4/100	$ 1049
15" ExView Monitor	$ 100
8MB 60ns RAM	$ 145
16MB 60ns RAM	$ 410

ICS 486 VLB

- ⇒ **486 VLB GREEN MOTHERBOARD**
- ⇒ 256K Cache - optional 512K Cache
- ⇒ 4MB RAM - 60ns 72PIN SIMMS
- ⇒ **Built-in** VLB IDE, 2 FDD, 2 Serial I/O, 1 EPP
- ⇒ **Built-in** CL5428 VLB VGA w/1**MB DRAM**
- ⇒ **Quantum 540MB 11ms Hard Disk**
- ⇒ ExView **14"** Monitor **.28dpi** **1024X768 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard

486DX2/66	$ 859
486DX2/80	$ 869
486DX4/100	$ 959
15" ExView Monitor	$ 100
8MB 60ns RAM	$ 145
16MB 60ns RAM	$ 410

UPGRADES!

⇒ **FAST ATA IDE HARD DRIVES**

- **420MB** - $ call
- **540MB** - $ call
- **850MB** - $ 219.95
- **1.2GB** - $ 289.95

⇒ **SCSI-II FAST HARD DRIVES**

- **540MB** - $ call
- **730MB** - $ call
- **1.0GB** - $ 355.95
- **2.1GB** - $ 765.95
- **4.0GB** - $1080.95

⇒ **FAST/WIDE SCSI DRIVES**

- **1.0GB** - $ 499.95
- **2.1GB** $ 899.95
- **4.3 GB**- $1395.95

⇒ **Monitors**

Ex-View **14"** 1024X768 .28 NI	$235.95
Ex-View **15"** 1280X1024 .28 NI LR	$345.95
Ex-View **17"** 1600X1280 .26 NI LR	$695.95

- **Call for Other Brand Names**

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OTHER SERVICES

Consulting, Network Installation, Servicing and Maintenance -Novell 3.1x/4.x, Windows NT UNIX (**SCO, SUN, UnixWare, BSD, Linux**) System Installation, Configuration and Admin.

NETWORKING

COMPEX Ethernet Combo	$64.95
3COM Etherlink III Combo	$99.95
3COM Etherlink III 10/100 PCI	$199.95
Intel EtherExpress 16 Combo	$129.95
Intel EExpress PRO 10BT	$109.95
Intel EExpress PRO Flash	$139.95
Intel EExpress PRO 10/100 PCI	$229.95
ZNYX 100Mbps **4PORT** 10BT PCI	$CALL
ZNYX 10/100Mbps 10BT PCI	$CALL

HUBS & CABLES

10BaseT Hubs	99.95up
AUI to 10B-T/10B-2 Transceivers	$39.95
Digital Print Server - 1 Parallel	$219.95
RJ45/BNC Connectors/Terminators	$1.25up
Made to Order Cables	$CALL

VIDEO CARDS

ATI ProTrubo 64 4MB VRAM	$429.95
ATI WinTrubo 64 2MB VRAM	$259.95
ATI MACH 32 2MB VRAM	$239.95
ATI MACH 32 2MB DRAM	$149.95
Diamond Stealth 64 Video 4MB V	$429.95
Diamond Stealth 64 Video 2MB V	$259.95
VRAM/DRAM Upgrades	$CALL
VL Bus 1MB DRAM Video Card	$75.95

CONTROLLER CARDS

Adaptec 3940W 2Channel PCI	$499.95
Adaptec 3940 2Channel PCI	$429.95
Adaptec 2940W 1Channel PCI	$249.95
Adaptec 2940 1Channel PCI	$229.95
BusLogic KT956C PCI Fast/Wide	$299.95
BusLogic KT946C PCI Fast	$249.95

ISDN/ANALOG MODEMS

USRobotics Courier	V.34 Ext.	$469.95
USRobotics Sportster	V.34 Ext.	$229.95
USRobotics Sportster	V.34 Int.	$219.95
USRobotics Sportster	14.4 Int.	$119.95
28.8 V.34 Fax/Modem	External	$165.95
28.8 V.34 Fax/Modem	Internal	$125.95
14.4 Voice/Fax/Modem	Interna	$69.95

ISDN MODEMS:

MOTOROLA TA210 BITSURFER w/NT1 and Analog phone jack up to 128KBPs transfer rate!!!	$349.00
DigiBoard DATAFIRE ISDN Card w/NT1, functions as a Network crd. up to 128KBPs transfer rate	$410.00
IBM 7845 NT1 Extended	$355.00

MULTIMEDIA/CDROM

SoundBlaster AWE32 WaveEffects	$269.95
SoundBlaster 16 ASP SCSI	$159.95
SoundBlaster 16 ASP MCD	$89.95
SoundBlaster 16 IDE	$79.95
TurtleBeach Monterey	$395.95
TurtleBeach Tahiti	$359.95
Jakarta MPEG 2MB PCI/VLB Video	$399.95
MiroCrystal DC1 Video Capture	$599.95

CDROM DRIVES:

4X IDE MITSUMI/TEAC CDROM	$139.95
4X IDE TOSHIBA CDROM	$149.95
4X SCSI TOSHIBA CDROM	$259.95
4X SCSI PLEXTOR CDROM	$329.95
6X SCSI TOSHIBA CDROM	$339.95
6X SCSI PLEXTOR CDROM	$599.95

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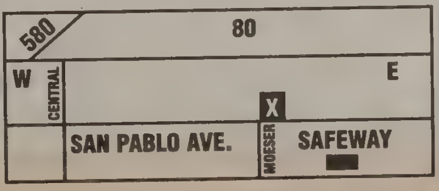

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Online Guide

Web Page Listings *continued...*

Seashore in Northern California. [Exp. #146.]

Ent

I'd Like Some Beastie Boys With Those Fries *http://www.hooked.net/users/clayton/index.html* Info about Buddhism, Beastie Boys, 311, Aeon Flux, skateboarding, Quentin Tarantino, and Reservoir Dogs. [Exp. #146.]

I'll Have Some Fries With Those Beasie Boys *http://www.hooked.net/users/clayton* Save Mumia Abu-Jamal, Beastie Boys, Aeon Flux, Burrito, Pulp Fiction, personal bio. [Exp. #146.]

Indojoe's Puff Center *http://www.westworld.com/~indojoe/indojoe.html* Links to game, hacking, phreaking, bombs, and related sites. Check out the "darker" side of cyberspace. [Exp. #148.]

Kerry Garrison's Home Page *http://www.delta.net/users/garrison* Links to Perl programming and web development information, cool sites, daily newspaper. [Exp. #147.]

Com

Larry Robinson's Genealogy Forms *http://www.wp.com/FOLDEE/* Source for unique genealogy supplies and home of the FOLDEE, a paper recycling center. [Exp. #146.]

Magic Arcs' Web Page From Hell *http://users.aol.com/magicarc/private/index.html* Cool site with lots of links, games, and software reviews. Netscape Enhanced. [Exp. #147.]

Mark Butler's End Node Of Fun *http://www.geopages.com/SiliconValley/1133/* No Links, just information. Doc Savage, Conan The Barbarian, comics, books, games, and more! [Exp. #148.]

Marko's Main Menu *http://www.inow.com/~marko/marko.html* Come and see, hey, it's free. [Exp. #146.]

Mishworld *http://www.earthlink.net/~mish* Harmful nonsense, links to strange things, poetry, and other fun but useless information. [Exp. #146.]

Myers Information Services *http://www.weight.com* Information on weight control and eating disorders written for the layman by a physician that treats both. [Exp. #146.]

Nabeel Ibrahim's Home Page *http://www-leland.stanford.edu/~ibrahim* Take the EE Purity Test! [Exp. #146.]

Ovi's World of the Bizarre *http://netmar.com/users/ovigher/ovi.htm* Absolutely shocking, but unquestionably true short reports. A must see for all Web surfers. [Exp. #148.]

Ramsey Ksar Home Page *http://pandora.library.ucsb.edu/~ramsey* An innovative personal home page with great links, my resume center, and a short bio. [Exp. #146.]

Rogelio's Home Page *http://pages.prodigy.com/CA/talldude/* This page has BBS numbers for the Los Angeles Area 213, 310, and 818 area codes. Also contains links to useful files and X-files Web Pages. [Exp. #148.]

Sheryl Moulton's Resume *http://redshift.com/~data/* Resume of recent college graduate seeking entry-level position or intership in computer industry. [Exp. #148.]

Steve's Hot Stuff *http://www.sonic.net/stephen/* WWW exploring, reference links, freeware/ shareware guide, computers in magazines/ ezines/radio/TV, User Groups. [Exp. #148.]

Suzaane Forsters' Home Page *http://www.deltanet.com/users/forster/* Provides a listing of womens' contemporary fiction novels, specializing in romantic adventure. [Exp. #148.]

Trav's Home Page *http://www.isc.sjsu.edu/b/r/twise/index.html* Lists of hot lists, links to Amateur radio resources, and other fun stuff. [Exp. #146.]

VinceWorld *http://vinceworld.com/* Euphoria? Ephemera? Get your bizarre, whimsical, undefinable interactive animation here! [Exp. #148.]

Ent

Virtual NEMESIS *http://www.geopages.com/athens/2116/* Links to climbing, movie, sci-fi, cartoon, chat lines, and other great sites. [Exp. #148.]

Will Ussery Home Page *http://www.slip.net/~wussery/* Designer of Ecco Pro templates. Ecco Pro is a leading Windows-based PIM. [Exp. #147.]

Erotica

XOS *http://www.webinc.com/xos/* The one and only adult entertainment magazine published on CD-ROM monthly. [Exp. #146.]

Ent

Zpub Sites *http://www.zpub.com* A collection of zines on topics ranging from the San Francisco Cacophony Society to Charity, from the Burning Man archives to Russian Trade Connections. [Exp. #148.]

POLITICAL/SOCIAL

100 CC *http://www.jodi.org/100cc/* Binhex, Commando Solo, live Cybersupremacist, General Surgeon news, CC Baklava Top 100, Betalab 2.0 [Exp. #147.]

6th International Conference On Computers In

continued on page 202

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- 4MB High Speed RAM
- **120MB IDE Hard Disk**
- 1.44MB Floppy Drive
- Window Accelerater, 1MB
- EIDE + I/O
- 14" SVGA .28, NI, Low Radiation, Energy Star Monitor
- 16 Bit Sound Card
- **Panasonic 2X IDE CD-ROM**
- Stereo Speakers
- Deluxe Mini Tower/230W
- Mitsumi Keyboard
- **Free Mouse & Pad**
- **Upgrade to PCI System add $18

486DX2-66	**$778**
486DX2-80	**$798**
486DX4-100	**$858**
486DX4-120	**$878**
Cy586-100	**$899**

ACME II SYSTEM SUPER INTERNET STATION

- **Super Micro Motherboard, made in USA**
- **Intel CPU & Fan**
- P&P Flash Bios
- 256K External Cache
- 8MB High Speed RAM
- 540MB IDE Hard Disk
- 1.44MB Floppy
- Window Accelerator/1MB
- EIDE + Fast I/O
- 14" Low Radiation, .28 NI 1024x768
- Mini Tower/230W
- **1.44 Fax/Modem w/Voice Mail**
- Keytronic Enhanced Keyboard
- **Free Mouse & Pad**

P5-75MHz	**$1098**
P5-90MHz	**$1198**
P5-100MHz	**$1258**
P5-120MHz	**$1338**
P5-133MHz	**$1518**

ACME III SYSTEM PENTIUM MULTIMEDIA

- **Intel Zappa Motherboard**
- **256K Cache**
- **Intel CPU + Cooling Fan**
- 8MB High Speed RAM
- **630MB, EIDE Hard Disk**
- 1.44MB Floppy
- EIDE + Fast IO (16550 UART)
- **Diamond Stealth 64 w/1MB**
- **4X CD-ROM**
- 14" 1280x1024 .28NI Monitor
- Diamond 16 Bit Sound Card
- Stereo Speaker
- Super Mini Tower
- Keytronic Keyboard
- **Free Mouse & Pad**

P-75MHz	**$1328**
P-90MHz	**$1428**
P-100MHz	**$1488**
P-120MHz	**$1568**
P-133MHz	**$1748**

ACME IV SYSTEM ADVANCED MULTIMEDIA

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- AMI Flash P&P BIOS
- EIDE + Fast I/O (16550 UART)
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- **4X IDE CD-ROM**
- 40W Stereo Speaker
- **8MB High Speed RAM**
- ATI Mach-64 VGA/1MB
- **850MB EIDE HDD, 10ms**
- 1.44MB FDD Teac
- **Super Scan 15" NI .28 Monitor**
- Keytronic Enhanced Keyboard
- Super Mini Tower Case 230W
- **Microsoft Mouse**

P-75MHz	**$1488**
P-90MHz	**$1588**
P-100MHz	**$1648**
P-120MHz	**$1728**
P-133MHz	**$1908**
P5-150/166MHz	**$CALL**

ACME V SYSTEM CAD WORKSTATION

- Titan III Motherboard
- **512K Pipelined Burst Cache**
- Intel CPU + Cooling Fan
- Intel Triton Chipset, Flash BIOS
- **P55-200Mz Upgradeable**
- EIDE + Fast I/O (16550 UART)
- **16MB High Speed RAM**
- Teac 1.44MB Floppy
- **1.08GB EIDE 10ms Hard Disk**
- Matrox Millenium 2MB WRAM
- Ilyama 17" 1600x1200NI .26 LR High Refresh Monitor
- **Full Tower 250W Power, 3 Fans**
- Keytronic Keyboard
- **Microsoft Mouse**

P-75MHz	**$2238**
P-90MHz	**$2338**
P-100MHz	**$2398**
P-120MHz	**$2478**
P-133MHz	**$2658**
P5-150/166MHz	**$CALL**

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Brand Name Components At GREAT PRICES!

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1x32 70ns SIMM	$98
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1MB DRAM Upgrade for VGA Card	$39
256K Pipeline Burst Cache Module	$39
512K Pipeline Burst Cache Module	$128

BRAND NAME VIDEO GRAPHICS CARDS

ATI Mach 64, 2MB VRAM	$230
ATI Winboost with 1MB/2MB DRAM PCI	$113/153
Diamond Stealth 64, 1MB/2MB	$98/138
New Diamond Stealth 2001 1MB	**$112**
Diamond Stealth SE with 1MB PCI	$79
Diamond Stealth 64 Video 2MB/4MB VRAM	**$233/383**
Matrox Millennium, 1600x1280, 2MB/4MB WRAM	**$298/468**
#9 GXE64 Pro, 2MB VRAM	$318
Trident 9440 1MB PCI or VLB	$63

BRAND NAME CONTROLLERS

Adaptec 2940UW Wide SCSI 3, PCI Controller	**$238**
Adaptec 2940 Fast SCSI 2, PCI Controller	$188
Adaptec 1542 SCSI Controller ISA	$169
PCI Wide SCSI Controller, NCR 825	$96
PCI SCSI Controller, NCR 810	**$48**
Promise 4030 plus disk accelerator	$128
ISA Enhanced IDE + Hi-speed I/O (PCI,VLB,ISA)	**$19**

BRAND NEW HARD DRIVES

120MB IDE	$75
540MB IDE, 10ms	$165
635MB IDE, 10ms Conner	$178
1.0GB WD/1.2GB Quantum EIDE	$220/248
1.6GB IDE Maxtor, 10ms	**$287**
1GB Fast WIDE SCSI	**$388**
2GB/4GB SCSI	$558/939

TAPE BACKUPS

Conner 420MB, Internal	$122 (with tape)
Colorado 800MB, Internal	$148

FLOPPY DRIVES

Teac 1.2/1.44MB	$38/$28
Sony 1.2/1.44MB	$37/$25

SUPER VGA MONITORS

15" 1280x1024 .28 NI, Digital Control	$298
Hitachi 15" 1280x1024 .28 NI (3 Yr. warranty) CM 1586	$369
Ilyama MF8617, 17" 1600x1200 .26 NI 17" 120MHz Refresh Rate	**$699**
Ilyama 9021, 21" 1600x1200, 76Hz	$1738

KEYBOARDS

Mitsumi 104 Windows 95 Keyboard	**$19**
Microsoft Natural Keyboard	$57

CABLES & ACCESSORIES

Wide SCSI Cable	**$19**
External SCSI II Cable	$23
Printer Cable	$3
Power Surge protector	$4
CD Storage Box	$9

CASE & POWER SUPPLY

Full Tower/250W UL Power, 2 Fan	$99
Mid/Mini Tower/230W Power	**$43/35**
230W Power Supply	$25
External SCSI Box w/Power Supply & Cable	$85

CD ROM DRIVES & SOUND CARDS

Sony 4X CD-ROM SCSI/IDE	**$145/115**
Teac 6X CD-ROM	**$178**
Toshiba 4-speed SCSI/IDE	$199/$128
Panasonic 2X CD-ROM	$58
Sound Blaster AWE 32 with software	$138
Sound Blaster 16	$75
Amplified Stereo Speakers 40W/80W	$20/$45

SOFTWARE (WITH SYSTEM)

Microsoft Windows 95 (Full CD Package)	**$93**
Microsoft DOS 6.22/Window 3.11, Full Package	$35/45
Microsoft Windows for Workgroups, Full Package	$54
Microsoft Home CD Titles, Encarta 95, Works, Money, Best Entertainment	$39
Microsoft Office 4.3(prof.)+bookshelf	**$230**
Chinese Talking Dictionary (in 1 CD)	$39

FAX MODEM

28.8K V.34 Fax Modem, Int/Ext	$118/130
14.4K Fax Modem with Voice, Internal	$58
US Robotic Sportster 28.8K Fax Modem Int/Ext	**$183/$193**

NETWORK CARDS

16 Bit Ethernet (10 base T + Coaxel)	$25
3COM 3C509 Elink III	$89/$442 (5pk)
3COM 3C590 PCI	$108

MOUSE

Microsoft Mouse	$22
Logitech Mouse Men 2 button/3 button	$15/$23

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Genuine Intel "Atlantis" Pentium 166 w/ATI Mach 64 VGA+Sound 16	**$328**
Genuine Intel "Endeavor" w/Sound Blaster 16	**$218**
Genuine Intel "Zappa" EDO, 256K, PCI EIDE/Fast IO (16550 UART)	$203
TITAN Dual Pentium 166MHz EISA/PCI, Intel Neptune w/256 Cache	$458
Genuine Intel "Plato," P5-60MHz, 256K, PCI, EIDE/Fast IO (16550 UART)	$190
Super Micro P55CMN P54-75MHz-200MHz	$168
Titan III Pentium 75-200MHz, Triton, EDO, 5 ISA+ 4 PCI+ Cache Slot, EIDE+Fast IO	**$133**
486DX4--120, VLB 30PIN+72PIN SIMM Socket, ZIF	$63
486DX4-100PCI 2*EIDE+I/O (16550 UART), 128K, ZIF	**$91**

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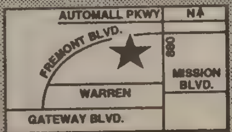

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$438
MOTHERBOARD/CPU
$208

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MOTHERBOARD/CPU
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$148

BASIC SYSTEM CONFIGURATION:

- 4MB RAM Expandable Except Pentium (Pentium-8 MB)
- IDE 2FD/2HD Controller
- 101 Key Mitsumi Keyboard
- Teac 1.44 MB Floppy Drive
- 2 Serial, 1 Parallel, 1 Game Ports (Exp. Pentium)
- Mini-Desk Top or Mini Tower Case
- Power Supply
- One Year Warranty

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- 4 MB RAM
- 630 MB Hard Drive
- Mini Tower or Mini Desktop Case
- Panasonic CD-ROM (4X Speed)
- Sound Blaster 16 OEM Soundcard
- Teac 1.44 MB Floppy Drive
- 14" SVGA 1024x768 .28mm NI Color Monitor
- SVGA Card w/1MB (Trident Chipset)
- IDE Enhanced Controller (2S/1P/1G)
- 101 Keyboard
- 25W Speakers
- Microsoft Compatible Mouse

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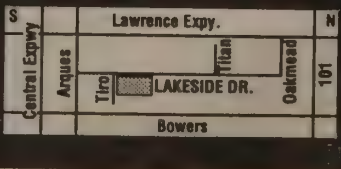

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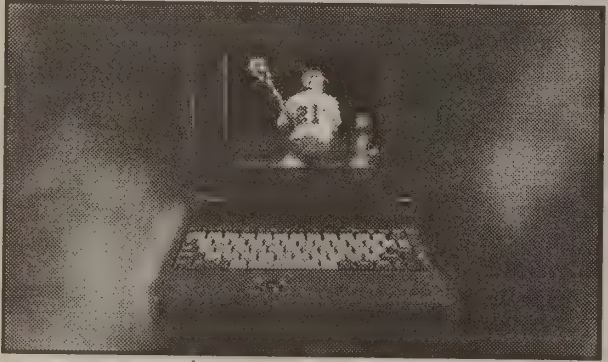

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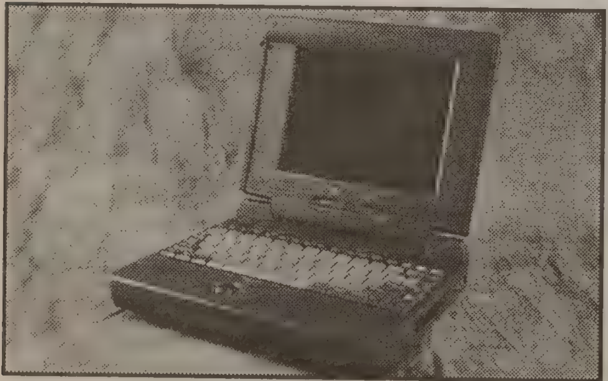

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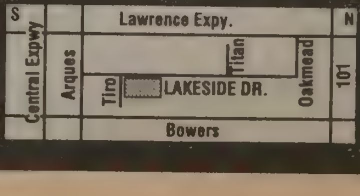

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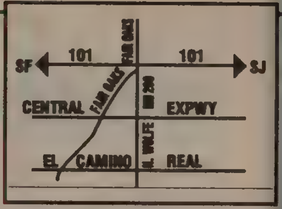

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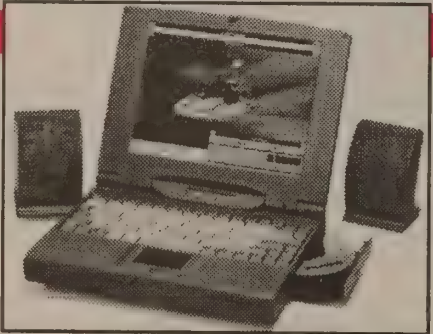

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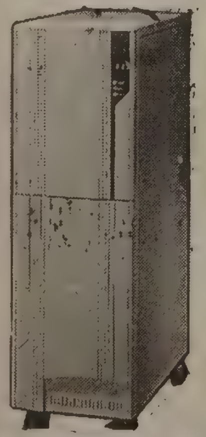

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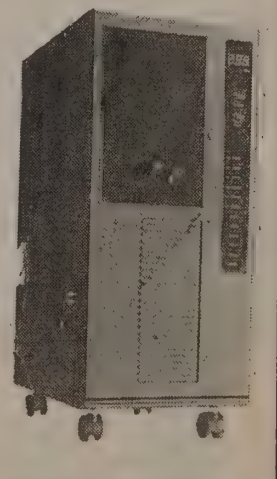

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1.2GB	2.5GB/SCSI	W/256k	P133/120/100/90	1280NI	6x CD-ROM
$265	$760	$205	$528/351/294/242	$540	$174

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DIAMOND STEALTH 64 PCI 4MB VRAM	403
• DIAMOND STEALTH 64 VLB 4MB VRAM	410
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ISA VGA TSENG 1MB ET4000	72
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RUSSIAN POWER CORD	2

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• HP 4SI PRINTER	3029
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HP 660C DESKJET (FOR PC) PRINTER	420
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- Panasonic 2X CD-ROM
- Speakers
- Sound-Blaster 16

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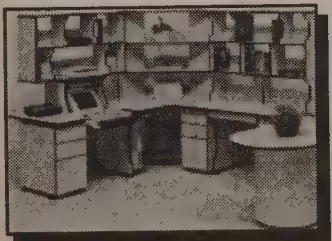

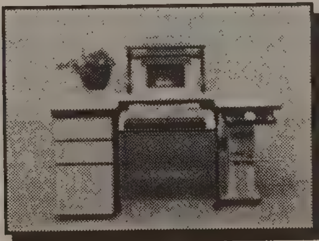

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E-Mail: Artcom 7853@AOL.COM

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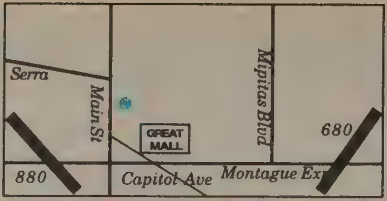

*Prices & availability subject to change w/o notice
*Not responsible for typos.
*Prices based on check prices.
*Cash discount for currency only.
*Company term on credit approval
*School & Government PO's accepted

FOR THE MOST UPDATED PRICES PLEASE REFER TO OUR SUNDAY SJ MERCURY COMPUTING AD

MB & CPU SPECIAL

Intel Atlantis P5-166/256K Pipeline PCI	$1268
Intel Atlantis P5-150/256K Pipeline PCI	$1024
Intel Atlantis P5-133/256K Pipeline PCI	$868
Intel Atlantis P5-120/256K Pipeline PCI	$698
Intel Atlantis P5-100/256K Pipeline PCI	$655
Intel Atlantis P5-90/256K Pipeline PCI	$593
Intel Endeavor P5-166/256K Pipeline PCI	$1164
Intel Endeavor P5-150/256K Pipeline PCI	$920
Intel Endeavor P5-133/256K Pipeline PCI	$764
Intel Endeavor P5-120/256K Pipeline PCI	$594
Intel Endeavor P5-100/256K Pipeline PCI	$550
Intel Endeavor P5-90/256K Pipeline PCI	$483
Intel Triton Zappa P5-133/256K PCI	$707
Intel Triton Zappa P5-120/256K PCI	$537
Intel Triton Zappa P5-100/256K PCI	$494
Intel Triton Zappa P5-90/256K PCI	$426
Intel Triton Zappa P5-75/256K PCI	$350
Asus Triton P5-133/256K Pipeline PCI	$712
Asus Triton P5-120/256K Pipeline PCI	$542
486DX4-100/256K PCI w/IDE PCI(Intel)	$185
486DX4-100/256K VLB (Intel)	$168
486DX4-100/256K PCI w/IDE PCI (AMD)	$185
486DX4-120/256K VLB (AMD)	$181
486DX4-100/256K VLB (AMD)	$168
486DX2-80/256K VLB (AMD)	$119
486DX2-66/256K VLB (AMD)	$114

PROFESSIONAL DREAM SYSTEM

*Intel Triton Endeavor w/ 256K Pipeline Cache
*Intel Pentium CPU
*CPU Cooler & Heatsink
*16MB RAM
*SPiDER Tarantula 64 Mk II w/2MB VRAM,64 Bit, 16.7Mil color Exp. to 4MB, Bundled w/MPEG
*IDE PCI w/ IO & 16550 UART
*15" Non-Int. Monitor (1280x1024)
*1.2GB Eide Hard Drive
*1.44 TEAC FD
*Medium Tower Case
*Crystal 16 bit sound card built in
*4Xi CD Rom & 15W Speakers
*Mitsumi keyboard, Mouse+Pad

PENTIUM

P5-166	$2470
P5-150	$2226
P5-133	$2090
P5-120	$1920
P5-100	$1875
P5-90	$1805
P5-75	$1730

CONTROLLERS

IDE W/ I/O / I/O w/ 1p,2s,1g	14/12
IDE VESA Local Bus	20
Enhanced IDE VLB w/16550	30
PCI IDE/PCI IDE w/16550	25/35
Adaptec SCSI 1522	77
Adaptec SCSI 1542CFP/1542CFP w/Kit	178/240
Adaptec SCSI PCI 2940 OEM w/Kit	200
Adaptec SCSI PCI 2940W w/Kit OEM	260
Adaptec SCSI 2825-VL OEM w/o Kit	115

DISCOUNTED 486VLB

* 486/256K Motherboard (30 & 72 pin sockets)
* 486 CPU
* 4MB - 70ns RAM Exp. 64MB
* 1.44 Teac FD (3.5")
* Spider 64 VLB w/1MB
  - Upgradeable to 4MB
  - 64 bit Windows Accelerator
  - 16.7 Million Colors
* IDE VLB w/1p,2* 14" SVGA
  - (1024 x 768, .28dp)
  - non-interlaced, energy saver
* 540 MB Hard Drive
* Mini tower Case w/ 230W
* 101 Enhanced Keyboard
* MS Compat. Mouse w/ Pad
* Free CPU Fan

486DX4-120 (AMD)	$810
486DX4-100(Intel)	$799
486DX4-100(AMD)	$799
486DX2-80(AMD)	$752
486DX-66 (AMD)	$747

MULTIMEDIA OF THE MONTH

*Intel Triton Zappa P5-75 MB PCI w/256K
*CPU Cooler
*EIDE PCI w/1p,2s w/16550 UART
*8 MB RAM
*SPiDER 64 Lynx PCI 1MB
*1.44 Teac FD
*101 Keyboard
*15" SVGA N-I Mntr.(1280 X 1024)
*540 MB IDE Hard Drive
*Mini Tower Case w/230W
*MS Compatible Serial Mouse
*4xi CD-ROM
*Diamond 16 bit sound card
*Speakers
*MS Encarta 95, Money,Works

$1350

VIDEO CARDS

❖TRIDENT	
SVGA-512/1MB (1024x768,16bit)	$38/58
❖DIAMOND	
Stealth SE VLB/PCI w/1MB	85
Stealth 64 Video VLB/PCI w/1MB/2MB DRAM	125/165
Stealth 2001 PCI w/ 1MB DRAM	110
Stealth 64 Video PCI w/2MB/4MB VRAM	245/390

❖SPECIAL - 2MB VRAM UPGRADE DAUGHTER BOARD ONLY $120

❖SPIDER	
LYNX 264 PCI 1MB/2MB DRAM(Opti)	62/105
LYNX 64 PCI 1M/2MB DRAM (IGS)	68/116
Tarantula 64 MK II VLB/PCI 2MB/4MB VR(S3-968)	220/340
Tarantula VLB/ PCI w/ 1MB/2MB VR(S3-964)	130/195
Tarantula VLB/PCI w/ 4MB VRAM	320
Tarantula Lite PCI w/1MB/2MB DRAM (S3)	88/125
32VESA Local Bus w/1MB/2MB (Cirrus)	76/126
32VLB Plus w/1MB/2MB	83/129
64 VLB/PCI w/1MB/2MB/4MB DR(Cirrus)	80/125/205
256 CACHE VLB w/1MB/2MB DR(CHIPS)	80/125
❖MATROX	
MGA Millenium PCI w/2MB/4MB VRAM	315/455
❖ATI	
ATI Mach64 WinTurbo PCI w/2MB/4MB VRAM	255/410
ATI Winboost VLB/PCI w/1MB/ 2MB DRAM	130/175
ATI Winturbo 1600 PCIw/2MB/4MB VRAM	280/420

FAXMODEM

❖ZOLTRIX	
Fax Modem (14400 F, 14400 M) Int / Ext	48/83
Fax Modem 14.4 voice/28,800 V.34	60/120
❖US ROBOTICS	
Sportster Fax/Modem 14,400 Int/Ext	94/125
Sportster SI Fax/Modem 14,400 Int/Ext	60/89
Sportster v.34 28,800 Int/Ext /28.8 w/voice	188/205/207

holiday '95 SPECIAL SYSTEM

*Intel "NEW" Triton ATLANTIS w/256k Pipelined burst cache
* 8MB - EDO RAM
* 1.44 Teac FD (3.5")
* Integrated PCI IDE w/Super IO
* Integrated ATI Mach 64 CTw1MB
  - upgradeable to 2MB Dram
* Integrated Crystal 16 bit stereo sound card
* 15" SVGA (1024 x 768, .28dp)
* 850 MB Hard Drive
* Medium tower Case w/ 230W
* Windows 95 key-keyboard
* MS Compat. Mouse w/ Pad
* Free CPU Fan

P5-166 MHZ	$2046
P5-150 MHZ	$1800
P5-133 MHZ	$1665
P5-120 MHZ	$1495
P5-100 MHZ	$1450
P5-90 MHZ	$1385
P5-75 MHZ	$1305

MONITORS

❖NANAO	
F2-15/F2-17/F2-17EX	530/840/950
T2-17TS/T2-17/T2-20	1010/1215/1875
❖NEC	
XP15/XE15/XV15	580/570/470
XE17/XP17/XV17	999/1020/746
XE21/XP21	1720/2090
❖MAG	
DX1595/DX1795(1280x1024)/MXP17F	390/710/815
DX15T/DX17T (Trinitron .25DP)	450/799
Princeton Ultra 15/Ultra 17	375/565
❖SONY	
GDM20SE/17SF2/15SF/CPD1425	1850/835/475/305
❖HITACHI	
CM1711/CM-2011(20")	850/1310
CM-1587MV/ CM-2110	370/1480
❖VIEWSONIC	
15G/15ES/15GS/15GA	435/ 375/ 440/510
17GA/17GS/17PS/17EA	780/745/870/685
20G/21PS/14ES	1,210/1,645/269
❖MGC	
Non-interlaced 14" Monitor 0.28	220
Non-interlaced 15" Monitor 0.28	295
Non-int. 15" .28dp w/Digital Control	315
Non-interlaced 17" Monitor 0.28	575
Non-interlaced 17" Monitor 0.26	595

MULTIMEDIA

❖CREATIVE LABS	
SoundBlaster Basic 2.0	50
SoundBlaster 16 Vibra OEM	82
SoundBlaster 16 SCSI-II OEM	110
SoundBlaster AWE 32 OEM/Orig.	140/220
❖MITSUMI 4XI CD ROM IDE	120
❖TEAC 6XI CD ROM IDE	175
❖TOSHIBA 5402 EIDE/ 3701 6xi SCSI	132/310
❖PANASONIC 4xi IDE/ SCSI	124/155
❖NEC 6xi SCSI	305
❖NEC 4xi IDE	129
❖ 4xi Multimedia Kit: 4xi CD-ROM + Diamond 16 sound card Microsoft *Home* software + Speakers	209
❖ 4xi Multimedia Kit: Quadruple-speed CD-ROM + Soundblaster 16 Microsoft *Home* software + Speakers	250
❖ 6xi Multimedia Kit: Creative Labs 6xi EIDE + Soundblaster 16 Microsoft Home software + Speakers	290
❖ SCSI 6xi Multimedia Kit: Nec 6xi + Soundblaster 16 SCSI-II Microsoft Home software + Speakers	460

KEYBOARDS

101 Enhanced keyboard	$18
Maxiswitch/Keytronics/Win'95 key	26/29/33
Focus 2001/7000/8000/9000	35/47/35/50
Omnikey 101/Microsoft Natural Orig./OEM	85/65

VERY AFFORDABLE PENTIUMS

* Intel Triton Zappa PCI MB w/256K (Latest version 809)
* Pentium P5 CPU
* IDE PCI Controller
  - w/1p,2s.1g & 16550 chip
* 8MB - 70ns RAM (72 pin SIMM)
* 1.44 Teac FD (3.5")
* Spider Tarantula Lite w/ 1M
  - 64 Bit Accelerator
  - 16.7 Million Colors
  - Expandable to 2MB
* 14" SVGA (1024 x 768, .28dp)
  - non-interlaced, energy saver
* 540 MB Hard Drive
* Medium tower Case w/ 230W
* 101 Enhanced Keyboard
* MS Compat. Mouse w/ Pad
* Free CPU Fan

Pentium 133(Intel)	$1440
Pentium 120 (Intel)	$1270
Pentium 100(Intel)	$1220
Pentium 90 (Intel)	$1159
Pentium 75 (Intel)	$1083

UPGRADE OPTIONS:

Endeavor Pipeline 256K	Add $55
Endeavor Pipeline 512K	Add $165
ASUS Pipeline 256K	Add $10
ASUS Pipeline 512K	Add $115
EDO RAM	Add $20

HOLIDAYS BEST BUY !

*Intel Triton Zappa w/256K + P5 CPU
*8MB RAM
*850MB IDE Hard Drive
*SPiDER Lynx 64 w/ 1MB (upgradeable to 2MB)
*Integrated PCI IDE w/super IO
*1.44 Teac FD
*101 Enhanced Keyboards
*15" SVGA Non-Int Monitor-MGC
*Medium Tower Case w/230w
*4XI CD-Rom
*Diamond 16 bit sound card
*Speakers
*Microsoft Encarta 95
*Microsoft Money
*Microsoft Works

Intel P5-133MHZ $1740

HARD DRIVES

❖CONNER	
850mb/12ms (EIDE)	190
1.2 GB/15ms (EIDE)	255
1.0GB/10ms (SCSI)	265
❖MAXTOR	
540mb/14ms (IDE)	173
850 mb/ 10ms (EIDE)	190
1.2 GB / 12 ms (EIDE)	255
1.6 GB/ 12ms (EIDE)	320
❖QUANTUM	
540mb/14ms (IDE)	173
540mb/14ms (SCSI)	175
1.0GB/10ms(SCSI)	260
1.2GB/11ms (EIDE	255
❖WESTERN DIGITAL	
850mb/10ms (EIDE)	193
1.0 GB/ 11ms (EIDE)	230
1.2GB/ 10ms(EIDE)	272
1.6 GB/ 10ms (EIDE)	340

MISCELLANEOUS

❖Microsoft mouse serial/bus	26/53
❖Logitech Mouseman serial/Bus (4000dpi)	27/48
❖COLORADO	
DJ-35C 350MB//DJ-501.4GB	128/225
T-1000 800 MB(Tape incl.)	185
Trakker 250MB/Trakker 700MB	230/315
❖Baby AT/Mini Tower case w/230W PS	40
❖Medium Tower case w/230W PS	60
❖Full Tower case w/250W PS	80
❖Floppy Drive 1.2/1.44/DUAL	40/36/90

Pentium75/90/100/120/133/166 1.6GB 16MB EDO Triton PCI

- Intel Pentium 64-bit 75/90/100/120/133/166 MHz
- Intel Triton Chipset Pentium PCI Motherboard w/256KB Pipeline Burst Cache (choice of ASUS,SuperMicro,Lan+ MB)
- 16MB EDO 72-Pin Simm 60ns (up to 128MB)
- 1.6GB 8ms EIDE Hard Drive
- 15" SVGA .28 Flat Screen Monitor
- Diamond Stealth 64 Video PCI Graphic Card w/2MB DRAM
- Teac 1.44MB Floppy Drive
- NMB Enhanced KB for Win 95
- Logitech Mouse w/ Pad
- Built in PCI EIDE Controller 4HD/2FD
- 2 Serials (16550 UART) & 1 (EPP&ECP)Parallel Port
- Med Tower Case w/ 230 Watts
- **Upgrade to Intel Endeavor MB w/Sound Blaster 16Bit Sound** add $69
- **Microsoft Windows 95 w/manuel** $89

$ 1769 /1869 /1899 /1949 /2199 /2499
75MHz 90MHz 100MHz 120MHz 133MHz 166MHz

Pentium75/90/100/120/133 1.06GB 8MB PCI Bus

- Intel Pentium 75/90/100/120/133 MHz CPU CPU Cooling Fan
- Pentium PCI Bus MotherBoard w/256 (upgrade to 512KB Cache)
- 8MB 72-Pin Simm 70ns (up to 128MB)
- 1.06GB Enhanced IDE 10ms Hard Drive
- 14" SVGA .28DP Non-interlace color Monitor
- Trident 9440 PCI Graphic Accelerator w/1MB DRAM 16.8 Million Max Color Display
- 1.44MB Floppy Drive
- Mitsumi 101 Enhanced Keyboard
- Mouse w/ Pad
- On Board PCI EIDE Controller 4HD
- 2 Serials & 1 Parallel Port
- Med Tower Case w/ 230 Watts

- **Microsoft DOS 6.22 & Windows 3.11** $69
- **Microsoft Windows 95** $89

$ 1139 / 1239 / 1279 / 1329 / 1499
75MHz 90MHz 100MHz 120MHz 133MHz

486-66/100/120 MHz 32-Bit VLB 4MB 850MB HD

- 486-66DX2/100DX4/120DX4
- VLB 256KB Cache Memory Motherboard
- 4MB Simm 70ns (up to 64MB)
- 850MB 12ms Enhanced IDE Hard Drive
- 14" SVGA Non-Interlace 1024x768 0.28dp Color Monitor
- Trident 9440 VLB Graphic Accerator W/1MB Dram (up to 2MB) 1280x1024 & 16.8M True Color
- 1.44MB Floppy Drive
- Mitsumi 101 Enhanced Keyboard
- Mouse w/ Pad
- VESA Local Bus Enhanced IDE Controller w/ 2 Serials, 1 Parallel, & 1 Game Ports
- Mini Tower Case w/200 Watts Power Supply

- **Upgrade to 8MB** $129
- **Microsoft Dos 6.22 & Windows 3.11** $69
- **Microsoft Windows 95** $89

$ 839 / 889 / 929
DX2-66 DX4-100 DX4-120

486 66DX2/100/120DX4MHz 850MB EIDE 8MB PCI

- 486-66DX2/100DX4/120DX4 MHz w/CPU Cooling Fan
- 486 PCI Local Bus 256KB Cache Memory Motherboard
- 8MB Simm 72-Pin 70ns (up to 128MB)
- 850MB 11ms EIDE Hard Drive
- 14" SVGA 1024x768 Non-interlace 0.28mmdp SVGA Color Monitor
- Trident 9440 PCI Graphic w/1MB DRAM
- 1.44MB Floppy Drive
- Mitsumi 101 Enhanced Keyboard
- Mouse w/ Pad
- Built in EIDE/IO Controller with 2 serial(16550) & 1 Parallel Port
- Mini Tower Case w/200 Watts Power Supply

*Microsoft DOS 6.22 & Windows 3.11 $69
- **Microsoft Windows 95** $89

$979 / 1039 / 1069
DX2-66 DX4-100 DX4-120

Monitors

Impression 14" 1024x768 .28dp I / NI Green	$219/229
Impression 5 15" 1280x1024 72Hz .28dp	$319
Impression 7 17" 1280x1024 72Hz .28dp	$589
Samsung 15GLi 1280 .28/17GLi 1280 .26	$439/739
Princeton Ultra 14" NI .28	$259
Princeton Ultra 15" NI 1280x1024 .28	$379
Princeton Ultra 17" 1280x1024 .28	$629

ViewSonic

ViewSonic 14ES NI 1024x768 .28	$279
ViewSonic 15ES/15GS 72Hz NI MPR II	$379/449
ViewSonic 17EA/17GS/17GA/17PS	$689/739/$829/889
ViewSonic 20G / 21PS 1600x1280 Flat	$1399/1699

SONY

SONY 15SFII PNP 1280x1024 0.25	$499
SONY 17" 17SFII 1280x1024 .25	$859
SONY 20" GDM-SE .30	$1829

NEC

NEC 14" XV14 .28 1024 70Hz	$339
NEC 15" XV/XE/XP	$459/556/629
NEC 17" XV/XE/XP	$749/$995/1099
NEC 21" XE / XP 1024/5FGp 1280 Flat	$1939/2299

MAG

MAG 15" DX15 1280x1024 0.28 Flat	$389
MAG 17" MX17FG / DX17 1280x1024 0.26 Flat	$769/645
MAG 17" MXP17 1600x12800 .26	$869
MAG MX-21F 1600x1280 .28 Flat	$1699

NOKIA

Nokia 449E 15" 1024	$479
Nokia 447L/447X 17" Trintron .25	$679/979
Nokia 21" 445X .26 1600	$2599
Nanao 15" F2-15 .28 1280 66Hz	$565
Nanao 17" F2-17 .28 1280/F2-17EX .26 1600	$915/$1015
Iiyama 17" VisionMaster .26	$729

Video Cards

Trident 9000(512K) / 8900D(1MB) ISA 1024x768	$40/$62
Cirrus Logic ISA w/1MB	$62
Trident 9440 VLB/PCI Graphic Accerator w/1MB	$72/72
Number 9 FX Motion 531 1MB/2MB PCI/VLB	$179/219
Number 9 FX Motion 771 2MB/4MB PCI/VLB	$289/429
Number 9 FX Vision 330 1MB/2MB PCI/VLB	$139/179

ORCHID

Orchid Fahrenheit 64 VLB,PCI 1MB/2MB DRAM	$155/195
Orchid Kelvin 64 VLB,PCI 1MB/2MB DRAM	$149/$189

DIAMOND

Diamond Stealth 64 VLB/PCI 1MB/2MB DRAM	$115/159
Diamond Stealth 64 Video PCI 1MB/2MB DRAM	$125/169
Diamond Stealth 64 Video PCI 2MB/4MB VRAM	$265/439
Diamond 3D Multimedia 2120XL 1MB DRAM PCI	$275
Diamond 3D Multimedia 3240XL/3400Xl VRAM	$429/589

ATI

ATI WinTurbo 64 PCI,VLB 2/4MB VRAM	$269/429
ATI WinTurbo 64 PCI,VLB 1MB/2MB DRAM	$135/189

SPiDER Graphics, Inc.

Spider 32VLB Plus 1MB/2MB	$95/149
Spider Tarantula 64 VLB/PCI 2MB VRAM	$249

Matrox

MGA Millennium 3D PCI 2MB/4MB WRAM	$325/459
Memory upgrade for Millennium 2MB/4MB/6MB	$185/329/465
MGA Millennium 3D PCI 2MB WRAM OEM	$289
Hercules Dynamite VLB 1MB DRAM	$169
Hercules Graphite Terminator PCI 4MB VRAM	$459
Hercules Stingray PCI 1MB DRAM	$99

Multimedia

CREATIVE
CREATIVE LABS, INC.

Blaster CD 6X	$249
Sound Blaster Value CD MultiMedia Kit	$189
Sound Blaster Digital School House MultiMedia Kit	$229
Sound Blaster Value CD 4X MultiMedia Kit	$279
Sound Blaster Discovery 16 CD 4X MultiMedia Kit PNP	$339
Sound Blaster Multimedia Home 4X MultiMedia Kit	$379
Sound Blaster Performance 6X PNP	$429
SoundBlaster 16 Value IDE	$89
SoundBlaster 16 SCSI 2 /ASP	$169/189
SoundBlaster 32 IDE PNP	$169
SoundBlaster AWE 32 PNP	$249
Phone Blaster (16bit sound card, Voice,Fax,Data Modem)	$189
WaveBlaster II	$149
Creative TV Coder External	$179

YAMAHA

Power Speaker YSTM10H	$69
Power Speaker YSTM5H	$29
Power Speaker Set w/Subwoofer YST-SS510H	$179
Power Speaker Set w/Subwoofer YST-SS1010H	$209
Subwoofer Speaker YST-MSW10H	$149

DIAMOND

Diamond 7000 Multimedia Kit PWR w/ 4X CDROM	$379
Diamond 4400 Multimedia Value Kit	$289
Diamond 500 Multimedia Kit	$209
Diamond Ultra 8X Multimedia Kit PNP	$539

HEWLETT PACKARD

HP SureStore CD-Writer 4020I Internal SCSI-2 650MB Recordable CD Drive(2X record, 4X read)	$1049
HP 1.2GB Fast SCSI II 9.5ms	$299
HP 2.1GB Fast SCSI II 9.5ms	$659

Printers & Scanner

HEWLETT PACKARD

*DeskJet/DeskWriter 600	$289/289
*DeskJet/DeskWriter 660C	$385/385
*DeskJet 850 (PC or Mac)	$489
*DeskJet 1200C / 1200PS(Special!)#	$699/1299
*LaserJet 5L	$495
*LaserJet 4+ / 4M+(Special!)#	$1359/1889
*ScanJet IIIC for Mac(Special!)#	$849
*ScanJet 4C for IBM	$939

Canon

*BJC-610E/4100 Color Inkjet	$539/379

OKIDATA

*OL400e 300dpi / OL410e 600dpi	$349/499
*OL410e/PS 600dpi Post Script 2MB	$739

EPSON

*Stylus Color Pro 720DPI	$749
*Stylus Golor II 720 DPI	$449

Motherboard

ASUSTek

*486 SiS VLB 256 SV2GX4	$119
*486 Intel PCI/VLB 256 AP4	$155
*486 SiS PCI/VLB 256 SP3 EDIE/IO	$159
*Pentium Intel Triton PCI 256 75~133MHz P55TP4XEG EIDE/IO(16550)	$209
*Pentium P55TP4XEG w/Pipelined Burst	$259

SuperMicro

*Pentium Intel Triton PCI 75~180MHz P55CMA EIDE/IO(16550) 256 Socket 7	$229
*Pentium Intel Triton PCI 75~180MHz P55CMS EIDE/IO Pipeline 256 Socket 7	$259

Intel

*Pentium Zappa PCI Triton 75~133MHz	$219
*Pentium Endeaver PCI Triton 75~133MHz Pipeline & SB 16 SoundCard & EIDE/IO	$299
*Intel Triton Chipset MotherBoard PCI, Socket 7 w/256 pipeline burst cache	$219

Mass Storage

*Colorado 350MB/700MB Int	$129/189
*Colorado 1400 1.4GB int.	$289
*Colorado T1000 800 Int w/Tape	$189
*Colorado T1000 800 Travan Ext.	$259

CONNER

*Tape.Stor 420MB Int/Ext Wide-QIC	$149/279
*Tape.Stor 850MB Int/Ext Wide-QIC	$189/349
*Tape.Stor 1.7GB Int Wide-QIC	$299
*Tape.Stor 800MB Int/Ext Travan	$179/349
*Tape.Stor 4GB SCSI/IDE Int W-QIC	$399/399
*Western Digital Caviar 31600 1.6GB	$369
*Western Digital Caviar 21000 1.06GB	$239
*Western Digital Caviar 2850 850MB	$199
*Western Digital Caviar 2635 635MB	$185

CDROM & Modem

*USRobotics SportSter 14.4 Int/Ext	$89/109
*USRobotics SportSter 28.8 Int/Ext	$189/209
*USR. SportSter 28.8/14.4 PCMCIA	$349/169
*USR. SportSter 14.4 VI Int/Ext	$109/125
*USR. SportSter 28.8 VI Int/Ext	$219/249
*Practical Peripherals 14.4 Int/Ext	$79/105
*Practical Peripherals 28.8 Int/Ext	$169/199
*SupraExpress 14.4 FaxMod Int/Ext	$79/99
*SupraExpress 28.8 PNP Int	$155
*Zoltrix 14.4K FaxModem Int	$49
*Zoltrix 28.8K Voice/Fax/Data	$149
*Zoltrix 14.4K Voice/Fax/Data Int	$65
*Cardinal 28.8 V.34 Int/Ext	$149/179
*Cardinal 28.8 Voice/fax Modem	$179/209
*NEC 6X Int SCSI OEM CDROM	$389
*Plextor Int SCSI 4X/6X	$295/449
*Toshiba 3701 SCSI2 6.7X CDROM	$329
*Toshiba 5302 4X EIDE CDROM	$145
*TEAC 4X/6X Internal CDROM	$135/199
*Misumi Quad Speed EIDE CDROM	$139

AiM Computers

1741-C Clayton Road, Concord,CA 94520
TEL: (510) 687-2822
FAX: (510) 687-5276
Internet: aimcomp@ccnet.com, http://www.aimcomp.com
Hours: Mon-Sat 10-6:30

MasterCard VISA

AiM Quality Guarantee

- **Lifetime Labor & 1 Year Parts**
- **72 Hours Burn-In**

Extended Warranty Service Available
On-Site Service Repair Available
Delivery & Setup Available
Financing & Leasing Available

Prices subject to change without notice
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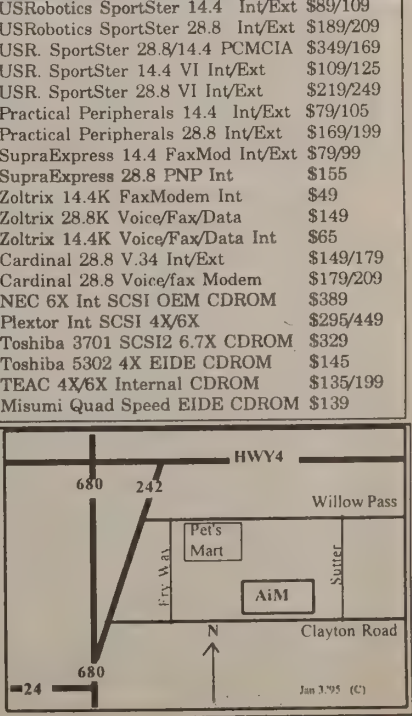

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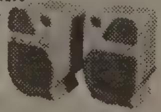

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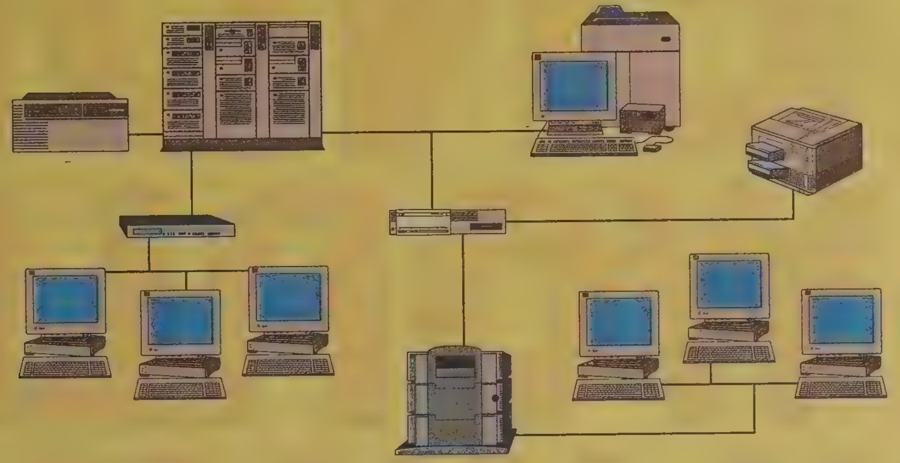

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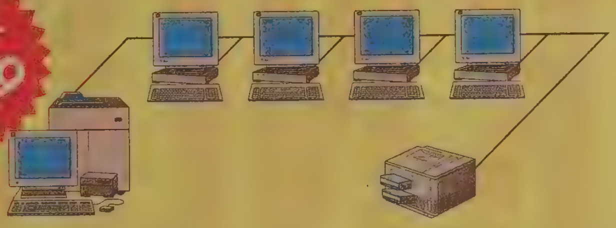

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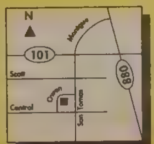

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"Only the paranoid survive."
—Andy Grove

"Let's be truthful. Most of the bright people don't work for you, no matter who you are. You need a strategy that allows for innovation occurring elsewhere."
—"Joy's Law," Bill Joy

THE 1995 MICROTIMES

"The Internet is the clear winner! More a ubiquitous pulsating neural network than a channeled 'information highway,' the Internet is the most important information technology development since the PC.

"Barely a year ago, interactive pundits saw emerging broadband as 'just around the corner' as fiber or coaxial cables would soon be the consumers' information highway network. Now we know that most important interactive applications will not be delivered through a television medium for the balance of this century. Neither cable operators nor telcos seem prepared to assume the staggering investment associated with broadband technology without better evidence that consumers will pay for the additional functionality, still far more expensive and crude than the here-and-now benefits of the Internet...

"In stark contrast, the Internet concept and its resulting architecture have spread the investment and the associated risks and benefits among facilities operators, content providers, software companies, and even users. As such, the Internet and its future do not depend on the benevolence of a few elite, highly conservative corporate investors. In less than two years, the Internet has moved from the backwaters of academics and techies to the rapids of the consumer IT market."

—Harvey L. Poppel and Paul Crisci,
The Red Herring, November 1995

"Ironically, in the long run, Microsoft may be the big loser. That's because Windows 95 fundamentally changes the game. It accelerates changes wrought by the Internet and World Wide Web. The value no longer resides in the user's system, but out there on the net. A company that controls a bottleneck—the operating system, for a hypothetical example?—gets to charge a toll of all who pass. But on the net, anyone who creates a bottleneck, anyone who tries to control access to another's content, will lose. So the providers of content, the owners/managers of communities and other individual creators of value on the net will gain power, as centralized organizations diminish in influence. This means there will not be 'another Microsoft,' but rather a more fragmented market where diversity delivers more value than the standards underneath. We're moving from mass media and mass government, where the majority rules (or censors, as Exon would have it) to a world of distributed communities, special-interest content and local control."

—Esther Dyson, *Upside*, October 1995

If someone asked us at various points last year who was going to be the 1995 Man Of The Year, we probably would have looked at them strangely and said, "Bill Gates. Of course!"

Reasons abound: Windows 95, accompanied by Mick Jagger inviting one and all to start it up. The book Gates finally got around to writing, *The Road Ahead*, detailing Microsoft's history and his visions of the future. Microsoft Network. Gates' acquisition, through his *other* company Corbis, of the Bettmann Archive. As we go to press, he's reputedly in negotiations for Microsoft to buy 49% of NBC. No doubt about it, the man does not let grass grow under his feet.

But a funny thing happened. Just as world domination seemed securely in Gates' grasp, he was, by his own admission, blindsided by the explosive growth of the Internet, and particularly by its inherent tendencies to subvert world domination. By year's end, he was radically repositioning the Microsoft Network from a proprietary content provider to a gateway to the Internet.

None of which is especially surprising—the very existence of the PC depends on independent-minded types with an ingrained reluctance to accept entrenched power structures and a positive genius for doing end-runs around them. Especially when there's money involved. And, given a game in which Bill Gates is unbeatable, trust his competitors to change the rules.

So Bill Joy, for example, took himself off to Aspen to contemplate ways to succeed in markets nobody controls, and the result, many mutations later, was Java. Jim Clark recruited Marc Andreessen, leading in remarkably short order to the most lucrative stock IPO in history and a plethora of magazine articles positioning one or the other of them as Gates' Biggest Nightmare.

By the end of 1995, the industry landscape was changed as drastically as that of post-Soviet Eastern Europe. Some once-proud companies were just gone: Lotus acquired by IBM, which cared little for the spreadsheet business that launched the PC but really wanted Notes; WordPerfect on the block and facing a bleak future, as Novell's new chief decided his predecessor's strategy of trying to out-app and out-OS Microsoft was maybe not such a swift idea.

Rocking cherished institutions on other fronts, a US-educated Japanese entrepreneur by the name of Masayoshi Son became the industry's instant trade-show czar, first acquiring the Ziff-Davis conference business, then The Interface Group and...COMDEX, at which he could be seen making many euphoric speeches. As well he should, since he'd just acquired Ziff's publishing business as well.

Son, whose family is of Korean origin, overcame discrimination at home to become Japan's leading software distributor and is often dubbed "the Japanese Bill Gates." His dramatic arrival on the US scene sparked heated debate from the anti-monopoly side: even Bill Gates might find it handy to own distribution channels, trade shows, and a hefty chunk of the trade press. Many fretted that Ziff writers would find their objectivity threatened by the fact that their boss was selling the products they were reviewing. However, most of the fretting seemed to be coming from Ziff arch-rival IDG.

And Son-san is by no means alone in seeking new synergies in a rapidly changing marketplace—consider mogul Richard Branson, whose Virgin media companies are busily creating content for people to buy in Virgin megastores or play with on Virgin airplanes while sipping Virgin cola. Even educational stalwarts Davidson & Co. provoked griping among their competitors by forming a distribution company with Mattel and snarfing major shelf space in the chains.

As we enter 1996, not only are Sun, SGI and Netscape collaborating on next-generation Webstuff, but the industry, including Microsoft, is flocking to their door to license technology that will help them compete in what's shaping up to be a largely platform-independent market. And maybe, as Esther Dyson suggests, there never will be "another Microsoft," just an ever-increasing variety of options.

Everything we've ever seen of Gates, though, suggests that rumors of Microsoft's impending demise are wishful thinking on his competitors' part.

—eds.

ONE HUNDRED

> "Anyone using the phrase *information superhighway* is almost certainly in the thrall of some large and doomed institution, or is a complete nimrod who knows only what he hears on television. Which is, for obvious reasons, filled with people who believe in it. They're not going to be roadkill on it, by golly. They're going to find that on-ramp...hey, they're going to be the on-ramp!
>
> "No way, San Jose. The future of the Industrial Era media megaliths, whether Disney, Time Warner, or, more to the point, Microsoft, will arrive over the Web, not the mythical infobahn. The Web will be the end of them. We are up against a discontinuous leap as we hit the next layer of interactive complexity, both in software and in thought. It has now reached a point where about the only way to develop all the scripts, scraps, and code objects from which the next World Wide Operating System will assemble itself is to grow them in the distributed, massively parallel amalgam of minds and processes that make up the net.
>
> "The Web is alive, and filled with life, nearly as mysterious, complex, and, well, natural as a primordial swamp. Microsoft is a factory. You can't manufacture life in a factory. You have to grow it in nature.
>
> "This is not so new, really. Bell Labs' proprietary claims notwithstanding, I take the first WWOS, UNIX, as proof that if enough graduate students type into enough terminals long enough, they will eventually produce an operating system. And given enough graduate students, you can be sure that somewhere among them will be a Bill Joy or a Marc Andreessen. In accordance with Joy's Law, they won't be working at Microsoft.
>
> "Furthermore, the Web and most browsers give them a way to crib from one another, lavishly and easily. All that's necessary to see the code that generated what's on your screen is to click: 'View Source.' All that's necessary to get your page employing some of the same innovations is to copy and paste. This creates an environment of dense autocollaboration. To see how productive it's already been in less than two years of existence, get on the Web now. This will make the microcomputer revolution look like a good start."
>
> —John Perry Barlow, *Forbes ASAP*,
> October 9, 1995

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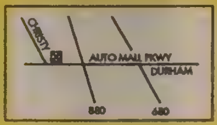

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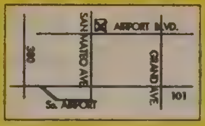

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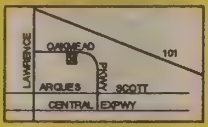

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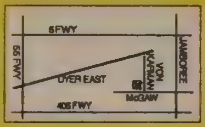

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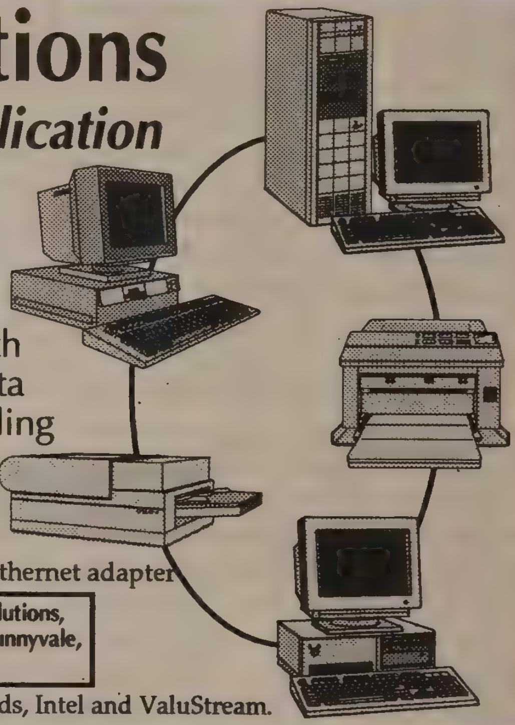

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Richard L. Adams Jr.
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Long active in data communications and networking, Adams was responsible for such de facto standards as the SLIP protocol. He founded UUNET, the nation's first commercial Internet service and now the Internet provider to the Microsoft Network, in 1987, and served as its president and CEO till mid-1994. He co-authored the perennial *!%@::-A Directory of Electronic Mail Addressing and Networks.*

BMUG

Deploying fervor and zeal where it does the most good, BMUG was at the forefront of the "been there, done that" campaign with which loyal Mac users greeted Windows 95. If Apple floundered, the intrepid BMUGers were there to take up the necessary slack, offering technical support and the benefits of an extensive schmoozepool to their many members.

Bill Baker
Representative, 10th District, California
US Congress

In a year when the legislative spotlight seemed chiefly devoted to regulating content on the net, Baker focused on a more pragmatic infrastructure issue. He proposed a bill (HR 1316) that would give employers $500 per year as a tax credit for each telecommuting employee, thereby not only taking cars off the road at rush hour but also hastening the construction of better communications technology.

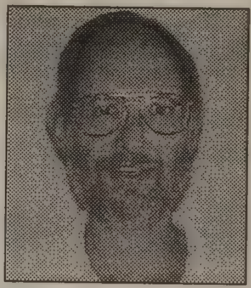
John Perry Barlow
Cognitive Dissident

In the old days, Barlow interviewed Bill Gates and Steve Jobs for us. These days he's getting profiled in *People* and doing one-on-one with Newt Gingrich in *George*, the magazine published by his pal JFK Jr. In the man's well chosen words, you know it's gonna get stranger. One week in August, for example, he turned up at Jerry Garcia's memorial, at the Gingrich-steeped Aspen Summit, and on the cover of a Buddhist magazine.

Barlow is still very active in the Electronic Frontier Foundation, which he and Mitch Kapor founded after another of those serediptous interviews, and is a tireless advocate of civil liberties in cyberspace. But his greatest and least predictable effectiveness stems from his unique ability to bridge alien worlds—worlds that tended to be mutually exclusive until he happened to crash through a few intervening barricades. Interesting perspective-broadening ensues.

Carol Bartz
Chairman, President, CEO
Autodesk

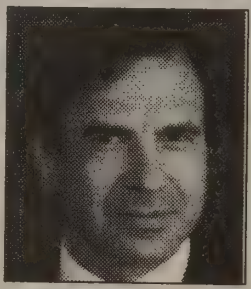
With the stated goal of making Autodesk "the Microsoft of design," Bartz has done a stellar job in maintaining its leadership in the CAD arena, with the latest release of AutoCAD bringing the benefits of object orientation to the flagship product. In addition, she's led the company to a position of new strength in the multimedia marketplace, as Pentium systems running 3D Studio compete successfully with more expensive workstations.



Steve Bass
Founder, President
Pasadena IBM PC User Group

Driven to found the Pasadena group, now 2400 members strong, by the lamentable computer support he got from a dealer back in 1982, Bass carried his passion for user-friendliness still further, co-founding the Association in Personal Computer User Groups.

He currently has dual careers as a licensed family therapist and a Contributing Editor at *PC World*, where he specializes in topics relating to home offices, user groups, and low-cost software.



Gaston Bastaiens
President and CEO

Emerick Woods
Vice President and General Manager, Internet Business Unit
Quarterdeck

1994 was a generally catastrophic year for Quarterdeck as its founders departed shortly after the IPO, reputedly over deep philosophical differences about the company's direction. During 1995, Woods and the newly-arrived Bastaiens achieved a dizzying feat of corporate self-reinvention, embarking on a flurry of global technology alliances and acquisitions to position Quarterdeck in the Internet solutions market, targeting the small- and home-office user. In an unprecedented departure from its all-x86 roots, the company acquired Berkeley-based StarNine Technologies, the leading provider of Web and mail list software for Mac users.

Eric Benhamou
Chairman and CEO
3COM

Benhamou has kept 3Com at the forefront of corporate networking inside and outside the enterprise, enhancing its global alliances and advancing into ATM and ISDN technology. The usually-understated CEO also led 3Com to new levels of international visibility as (for a hefty price) SF's Candlestick was rechristened 3Com Park.

Jim Bidzos
President
RSA Data Security

Bidzos' take-no-prisoners style combined with Internet-driven demand for truly secure online communications have taken RSA from being a successful niche vendor to the unquestioned

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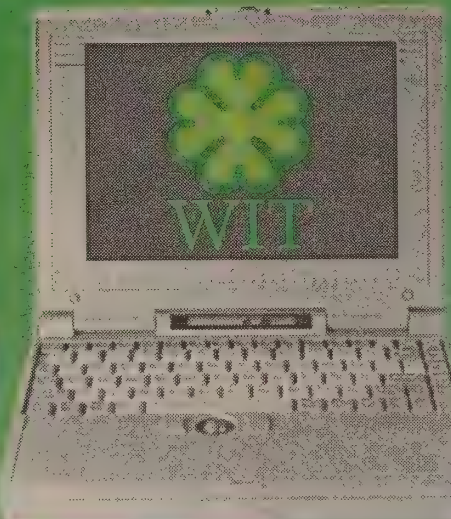

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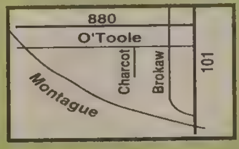

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leader in commercial encryption. Whether it's a software vendor wanting to prevent wholesale copying or an online shopping service seeking to deter thieves, RSA technology is a key component in evolving commerce—as evidenced by the fact that its annual conference, formerly the province of feds, spies, and academics, is now bursting with corporate types determined to protect their company's intellectual assets and conduct business online.

Richard Branson
Founder and Chairman
Virgin and Voyager Groups Of Companies

Driven largely by the quest for challenges, Branson has been shaking up whatever field he ventured into for decades (commercial aviation and cola wars being among the most recent). Having sold Virgin Records in 1992, he found himself not quite ready to get out of the content business, and besides, as he recently told *The Red Herring*, he'd noticed that his kids were spending more time with interactive games than listening to music. The result was Virgin Sound & Vision, a developer of family-oriented CD-ROM titles that find a natural outlet on the waiting shelves of Virgin Megastores.

Jeff Braun
CEO
Maxis

Despite the many snide, hilarious, and largely truthful remarks he made about Windows in the wake of 1994's Lion King debacle, Braun was not struck by lightning. Indeed, by year's end he was heard remarking that Win95 finally made the PC a Mac. In the intervening time he took Maxis through a successful IPO; as a burgeoning population of Sims took advantage of more powerful hardware on which to reside, the company was a darling of consumers and investors alike.

Kaye Caldwell
President
Software Forum

Caldwell serves as an eloquent voice for the interests of software developers and consultants, in a variety of industry activities as well as through her work at the Software Forum. She's a valuable liaison to the development community in the areas of state and federal legislation, and has worked extensively in the area of intellectual property policy.

Doug Carlston
Chairman and CEO
Brøderbund Software

As Myst joined its predecessors Print Shop, Carmen Sandiego, and Kid Pix among Brøderbund's evergreen products, Carlston & Co.'s emphasis on quality, attracting and retaining top people, and maintaining the agility to negotiate platform shifts paid off in a very successful 1995.

With consolidation a strong trend in the consumer software industry, a compatibility of values led to a proposed acquisition of The Learning Company, a similarly quality-oriented company with a complementary

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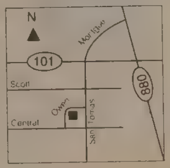

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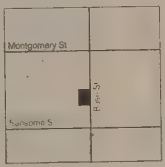

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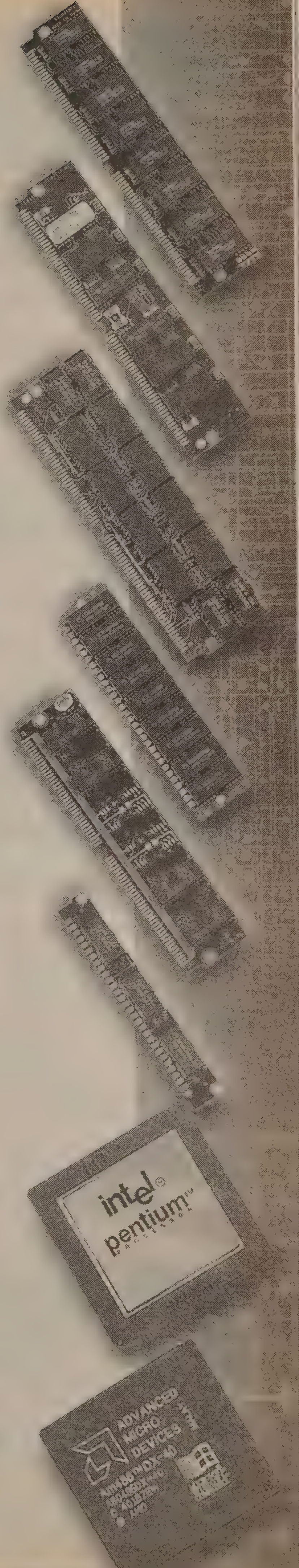

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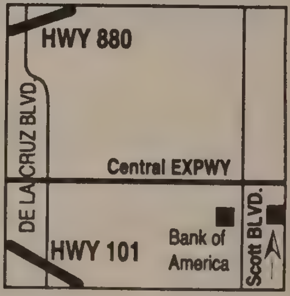

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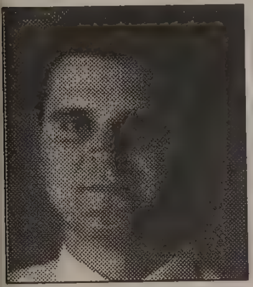
Denise Caruso
Columnist
New York Times

A longtime observer and reality-checker of the industry, Caruso also currently serves on the board of the Electronic Frontier Foundation and was instrumental in its move to the West Coast from the miasma of the Beltway.



Steve Case
President and CEO
America Online

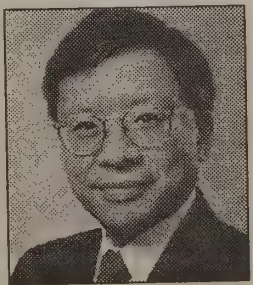
Notwithstanding the efforts of alt.aol.sucks, Case has been unusually effective in maintaining a human touch on AOL while leading it from its beginnings as a Commodore 64 system. During 1995 AOL introduced a broad range of Internet services, including a long-awaited Web browser.

1995 saw AOL pass CompuServe as the most populous online service in the US. It is uncertain to what extent this resulted from a televised advertising blitz involving an all-too-plausible doofus beaming "My boss thinks I'm working, but I'm really goofing off on America Online," but we think it ought to get some kind of truth-in-advertising award anyhow.

But hey, Steve, enough with the diskettes already, okay?

Pehong Chen
Chairman and President
Chinese Software Professional Association

Chen presides over one of the most useful resources for the Bay Area software professional, Asian or otherwise, particularly those interested in starting companies or working in Pacific Rim areas. Founded in 1988, the San Jose-based CSPA sponsors monthly lectures by successful entrepreneurs (past speakers have included venture capitalist William Davidow, Brøderbund's Doug Carlston, and Aimnet president Hong Chen), as well as an annual conference. At 1995's event, participants were treated to lively and candid presentations about emerging opportunities by the likes of Will Hearst and Gilman Louie. Advised Louie, "Do something for yourself. Take that to market. That's how you get rich."



Ronald Chwang
President and CEO
Acer America

Another success story in the fiercely competitive PC market, Chwang has kept Acer's growth healthy; he's applied the Taiwanese parent company's policy of "global brand, local touch" to the US customer base—several products were developed exclusively for the needs of the US customer, including voice navigation technology and the popular Acer Aspire computer.

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Jim Clark
Founder and Chairman
Netscape

Not even Clark could have predicted Netscape's record-breaking stock performance; indeed, he cautions that notwithstanding much hoopla, the company's real challenges are just beginning, and he's installed an impressive team to deal with them. But, with two successful startups to his credit (the other being Silicon Graphics), he's displayed a nearly unique ability to combine vision with business acumen—and to be shipping product somewhat before most of the competition has noticed the opportunity.

John C. (Bud) Colligan
President and CEO
Macromedia

Colligan's been involved in multimedia from the gleam-in-the-eye stage, having served in the original development and launch of the Macintosh. Since arriving at Macromedia in 1992 as the result of its merger with his company Authorware, Colligan has provided the company with effective leadership and brought its Director technology to the forefront of multimedia development. By year's end, he was announcing wide industry acceptance of its Shockwave for Director technology by Netscape and other key Internet players, as well as a collaboration with @Home to create development tools for online multimedia in the cable environment.

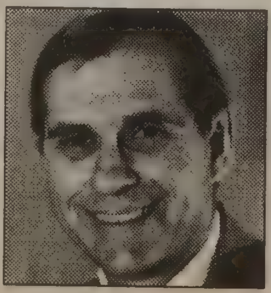
Scott Cook
Chairman
Bill Campbell
President & CEO
Intuit

Campbell had scarcely begun to settle into his new job at Intuit in late '94 when it was announced that chairman/founder Cook had gotten together with Bill Gates and agreed to merge the two companies. The idea was to take advantage of what they both saw as huge emerging opportunities in online transactions.

For good or ill, the merger never happened, a casualty to ongoing antitrust scrutiny of Microsoft. Microsoft went on to pursue its own online strategy; Cook and Campbell were left to do likewise.

In the process, they've developed strategic relationships with numerous banks to provide each one's branded online banking service and announced their Internet plans, including an Intuit version of Netscape's browser. With strong leadership in both the consumer and small business markets, Intuit is focused on making it simpler for its customers to move their banking and other transactions to the Internet and other online environments.

Jan and Robert Davidson
Founder & President/
Chairman & CEO
Davidson & Associates



The Davidsons' combination of educational and business expertise have brought their company growth and prosperity since the early days of Math Blaster, and they've stayed ahead of the curve with strategic acquisitions and timely adoption of emerging multimedia. One of their more recent innovations was a response to the battle for shelf space in consumer outlets: joining forces with neighboring toy giant Mattel, Davidson formed New Media Express, a distribution company that rapidly established itself as the chosen provider in many toy and software stores.

Sky Dayton
Founder/President
Earthlink

Dayton spent considerable time in the spotlight during 1995 as a classic example of the successful young Internet entrepreneur. However, instead of sitting around reading his press releases he's been working to keep Earthlink from falling prey to the problems of insanely rapid growth as Southland Internet users pile onto his system.

Bart Decrem
Director
Plugged In

Decrem's work with the youth of East Palo Alto has served as a pilot and inspiration for similar programs elsewhere. Combining the occasional government funding with a lot of corporate support and volunteer assistance, Plugged In teaches kids multimedia and Internet skills, not only to help them at school but to give them a sense of people and possibilities they hadn't previously imagined.

Robert P. Dilworth
President and CEO
Metricom

Longtime industry veteran Dilworth has led Metricom in its development and marketing of innovative spread-spectrum wireless technology. Because it uses a license-free portion of the radio spectrum, the Metricom's Ricochet Wireless Modem and Service are able to provide access to the net, online services, corporate networks, etc., for the initial cost of the modem and a flat rate of $29.95 a month. And, since spread spectrum technology was originally developed for military communications behind enemy lines, it avoids numerous security problems.

Currently in use by the City of Cupertino for CityNet, the Ricochet service offers a variety of services among city agencies, as well as citizen access to government. Its technology is being explored in pilot projects as a possible source of low-cost net access to rural and other underserved areas.

Bill Dinsmore
President
The Learning Company

1995 provided Dinsmore with abundant evidence that no good deed goes unpunished.

Dinsmore came to The Learning Company in 1987 and soon brought the home of Reader Rabbit to its first profitability. Years passed and his team

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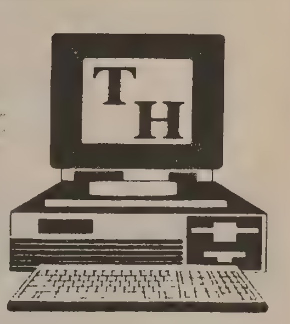

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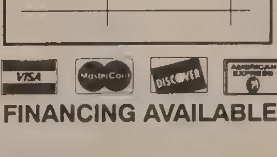

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What's NeXT?

STEVE JOBS WAS THE FIRST RECIPIENT OF THIS OCCASIONALLY presented Execs-In-Transition award some years ago, and 1995 furnishes a parade of candidates, as companies vanish and their leaders go forth in search of new opportunities.

We were amazed, for instance, when we heard the rumor that **Jim Cannavino**, late of IBM, had a new job running **Ross Perot's** latest campaign. Indeed, the rumor turned out to be erroneous on several points, but the fact of the matter is that Cannavino, who worked his way from eighteen-year-old keypunch repairman to heir-apparency for IBM's top job before the advent of current CEO Louis Gerstner, left Big Blue to become president and COO of Perot Systems during 1995. There was some speculation in Dallas as to how Cannavino's maverick style would mesh with Perot's no-nonsense corporate culture, but the information-services company professed itself delighted at the addition of his technical and marketing expertise.

In other IBM-related news, Lotus CEO **Jim Manzi**, nobody's #2 Guy, surprised no one by bailing shortly after Lotus's acquisition. His future endeavors remain the subject of interested speculation.

---

produced many high-quality educational titles, augmented with the acquisition of HyperGlot and its Learn to Speak foreign language series in 1993.

1995 saw TLC engaged in an amicable merger agreement with Brøderbund, a similarly successful company with a complementary product line and compatible culture. Everything looked rosy.

Enter Softkey, a low-cost supermarket software publisher. Depending on who's telling the story, Softkey is either the price-conscious consumer's best friend or the shovelware vendor from hell, but it was assiduous in its relentless hostile takeover bid.

Softkey made little secret of its intention to market stripped-down versions of TLC's products. Dinsmore and his team made it clear that in the event of a successful bid by Softkey they'd sell their stock and leave the company, leaving the value of the acquisition in some doubt.

On December 11, TLC shareholders, evidently more concerned about cashing out than with the company's long-term future, agreed to accept SoftKey's bid. Dinsmore was last seen trying to keep the transition graceful.

John Doerr
General Partner
Kleiner Perkins Caufield & Byers

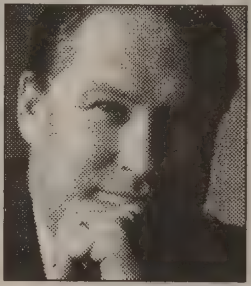
Generally regarded as one of the smartest VCs around (Netscape's Jim Clark, for example, cites him as the reason he came to Kleiner Perkins for funding in the first place), Doerr is highly influential in offering no-nonsense advice to would-be entrepreneurs and working behind the scenes to form useful alliances and partnerships. Jerry Kaplan's 1995 book *Startup* shows Doerr at work in the volatile world of entrepreneurs and innovators from which, after many iterations of the law of unintended consequences, successful companies and products are born.

Bill and Ann Duvall
CEO/President
SurfWatch Software

Bill Duvall wrote the software that sent the first data packet across the Internet; both Duvalls share a multi-decade history of high-tech startups. They're doing nicely with this year-old company by serving a vital function, defined in their mission statement as "to deliver tools which help people better use technology to solve social problems created by the explosion of technology."

SurfWatch, their first product, shipped in May and was soon adopted by online services America Online and CompuServe as part of their respective Internet offerings. Available with monthly updates-by-subscription to keep track of ever-proliferating discussions and Web sites, SurfWatch allows parents to block access to whatever net areas they deem inappropriate for their kids, and enables employers to screen what comes into the workplace, etc.

The existence of this software and other programs that followed lent credibility to the forces opposing net censorship. As Bill Duvall commented in demoing the software before Congress in July, "As Congress continues to debate the key issues of protecting our children while maintaining the rights of adults, we believe that SurfWatch can provide a true technological alternative to Internet censorship."



John C. Dvorak
Columnist, Radio Host

Will Netscape's challenge to Microsoft's hegemony spawn a new genre of Dvorak humor? Will future columns feature increasingly surreal interactions with strange avatars of Jim Clark and Marc Andreessen? This is only one of the possible scenarios awaiting Dvorak fans, and with his many columns, books, radio shows and other communiques proliferating on every side, it's safe to say that most of the weirder possibilities will come to bizarre fruition.

Esther Dyson
President
EDventure Holdings

With a dizzying variety of activities ranging from jumpstarting the high-tech startup in Eastern Europe (and rethinking a lot of assumptions about the relationship of business and chaos along the way), publishing two influential newsletters and hosting their associated conferences, advising entrepreneurs and investors around the world, and currently serving as chairman of the Electronic Frontier Foundation, Dyson has been one of the busiest and most influential figures in the personal computer industry for well over a decade.

She caused a certain consternation amid software developers, one of her historic major-fan constituencies, by suggesting in various writings and speeches during 1995 that digital technology, with its inherent enhancement of copying ability, would fundamentally change business models involving intellectual property. As she said in the context of a discussion on "The Nature of Property and Freedom" at the Progress & Freedom Foundation's Aspen Summit, "'Owning' intellectual property is like owning land: You need to keep investing in it to get a payoff; you can't simply sit back and collect rent. To some this state of affairs may seem unfair. But if you look at the new rules by themselves, they have a certain moral flavor: People will be rewarded for personal effort—process and services—rather than for ownership of assets."

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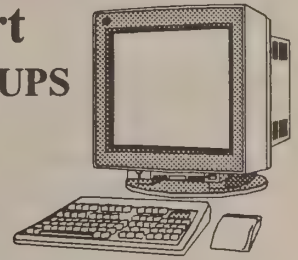

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90Mhz PENTIUM® W/ 256K PCI	$429
75Mhz PENTIUM® W/ 256K PCI	$339
486 DX4 100 W/256K VLB (AMD)	$199
486 DX4 100 W/256K VLB (INTEL)	$209
486 DX4 100 W/256K PCI (AMD)	$219
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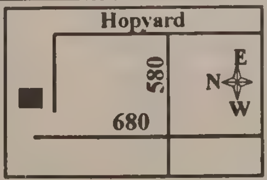

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SATURDAY...11-4

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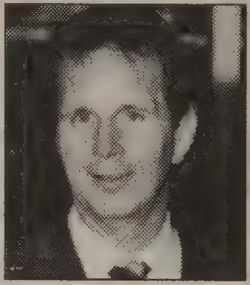
Jeffrey A. Eisenach
President
Progress & Freedom Foundation

The intersection of politics and technology is the turf of PFF, which Eisenach cofounded. And if the solutions Eisenach proposes aren't to everybody's liking ("Replace the FCC! Privatize the Spectrum! Deregulate the Local Loop!" proclaimed a recent newsletter), the ensuing dialogue is a vital catalyst to forming policies we can all live with.

We would also like to convey our heartfelt thanks to whichever PFFs are responsible for the stunning profusion of phone lines made available free of charge to PFF Aspen Summit conference-goers—at the tables. We can only hope wistfully that future conferences exhibit this blessed thoughtfulness.



Pete Ellis
President
Auto-By-Tel

Once known for the tenacious jingles in his TV commercials, long-time car dealer Ellis initially developed the concept of Auto-By-Tel for interactive TV, but was bitten by the Web bug instead. He's one of a relative handful of online entrepreneurs who've found a successful business model—in this case, allowing customers to submit requests for bids on the car of their dreams, with the request routed to appropriate dealers nationwide who subscribe to the service. With virtual storefronts on the Web, CompuServe, and Prodigy, Auto-By-Tel is processing thousands of requests per month, gladdening the heart of its founder, whose stated goal is "giving everyday customers a new way to buy or lease a new vehicle, without hassles, without fees, and without joining any auto-sales clubs." It's too soon to tell whether his business will enjoy long-term success, but Ellis' pioneer status is secure.

Larry Ellison
Chairman and CEO
Oracle

While keeping the database giant at the top of its field and dominating the Redwood City shoreline, Ellison sparked an explosion of interest with his vocal advocacy for the concept of the $500 "network computer," designed to deliver on-demand multimedia content via the Internet to consumers who presently aren't interested in buying computers. Optimized to run on the Web, dedicated to functions such as email, word processing, and data browsing, this as-yet-unbuilt machine caused much spculation as to whether it was the ultimate Microsoft-killer or yet another failed set-top box, but with support from the likes of Ellison and Sun's Scott McNealy, it stands a good chance of becoming real.

Vicki Esralew
President
Kids Count

A Northbrook, IL mother of three children, Esralew was concerned about the dark side of life for today's youth: kids killing other kids, teen suicide, fractured and/or dysfunctional families.

On The Horizon

OUR READERS TOLD US ABOUT SOME FOLKS WITH NOTEWORTHY fledgling efforts; we're pleased to spotlight them.

Capita (Ming-Tzung) Lai is the 23-year-old president of Chinese-language Informationist Press in Taiwan; he says he's been trying since his high school days to build an information-age intellectual community there.

Says Harvard student Ken Shan, one of those who brought Lai to our attention: "I first met Capita in my high school's Information Club, of which he was a founder. He is an idealist, I would say, and he has many dreams about how information technology may be used to improve this world, and how the general public's misunderstandings about (or even antagonism toward) computers may be reduced.

"He is able to carry out his ideals—implement them in down-to-earth mode. For example, he wrote a programming column in a Taiwan computer magazine in a time when many computer magazines in Taiwan are about the latest hot CD-ROMs and how cool the Windows 95 interface is. He operated a BBS, perhaps the only BBS in Taiwan that worries about the high quality of discussions frightening new users away, in a time when many people log onto BBSes mainly to chat and download files. He started a publishing company that aims to produce real quality books, in a time when most companies publish tons of repetitive books with little substance but lots of buzzwords so as to grab the largest portion of the market."

Adds Caltech student Kaihsu Tai, "Informationist Press made a point of publishing original books written by local authors concentrating on localized software and domestic needs. The debut of Informationist Press, *The Microsoft Conspiracy*, was the first cyberfiction ever published in Taiwan. *The Word Book: The Art of Chinese MS-Word Application* by Heidi Hseuh was a bestseller with praise from Taiwanese computer gurus. Current Informationist projects include *Roads to Cyberspace*, memoirs of Taiwan computer gurus on their computer-learning experience, and *Software Revolution Around the Millenium, Revised Edition*, the great volume describing the integration of OOP, C++, GUI, the three revolutionary technologies that changed the modern computing world."

Closer to home is **Roya Zamanzadeh**, who's currently working as director of sales at Consultex in Palo Alto. Zamanzadeh, who as a child came to this country from Iran with her parents, was brought to our attention for her work on the Web. With two BAs, in International Relations and French, and an MA in Women's Studies, she brings a special perspective to her self-chosen work: "My goal," she explains, "is to promote women, especially women of color, in the high-tech industry. I am currently developing a home page for an anthology on Iranian women on the WWW. I am in the midst of discussing the possibility of putting the SF Women's Building on the WWW. I try to encourage as many women as I can about the marvels of multimedia and the Internet, because that's where our future is."

She adds candidly, "I would like to combine my feminist consciousness and activism with the high-tech industry, *and* make enough money to survive!"

We're pleased to join their friends and colleagues in saluting these rising stars, and we await their future projects with interest.

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She decided to do something a little unusual in response: she founded a software company whose products offer a simple, engaging, child-friendly environment in contrast to what she sees as gratuitous silliness and decibel levels in some educational software, and to the violence and gore in the ever-popular Mortal Kombat and Doom.

Kids Count's first offering is the well-reviewed Jack's House, described as educational at the same time it teaches hand-eye coordination and celebrates the values of a warm, loving family. Next up—Jack's Attic, celebrating the fun and usefulness of old stuff.

In addition, Esralew has, at least temporarily, triumphed in the battle for shelf space that bedevils small developers—after attaining some success by selling Jack's House at local grocery stores and through an 800 number, she found the retailers coming to her.

Gordon Eubanks
President and CEO
Symantec

Eubanks has historically pursued a strategy of growth by acquisition, and while such efforts have often proved the undoing of other companies, they've kept Symantec in a virtually unchallenged position in the utilities marketplace. Mass upgrades to Windows 95 drove mass acquisitions of new Symantec products to handle its new capabilities, and the latest acquisition, Delrina, offered access to a new array of fax and online technology.

David Filo
Jerry Yang
Chief Yahoos
Yahoo

Somewhat before the Internet's population grew so explosively, Stanford graduate students Filo and Yang realized that it would be extremely useful to be able to search its contents efficiently. The first version of the Yahoo guide was the result, enabling millions of readers to find what they're looking for fast. Today approximately 1.5 million visitors a week access www.yahoo.com free of charge (thanks to revenue from advertising on the service).

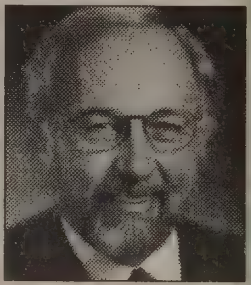
Filo and Yang formally incorporated the year-old company in April 1995; despite the fact that the company's grown to a whopping 14 employees and attracted a number of high-rolling investors, they remain closely involved.

Robert Frankenberg
President and CEO
Novell

Frankenberg's predecessor Ray Noorda thought Novell should compete against Microsoft by being big in the same markets; by the time Frankenberg arrived, Novell encompassed a motley and ill-assorted group of companies with an uncertain future. By the end of 1995, Frankenburg was well on the way to returning Novell to its original mission in networking, a field that's become pretty competitive itself lately; UNIX had been sold to the Santa Cruz Operation, and the expensively-acquired applications including WordPerfect were on the block.

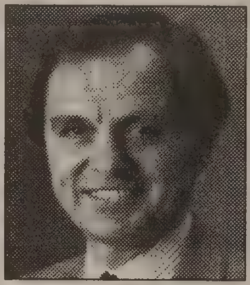
David, John, Randy Fry
Founders
Fry's Electronics

The Fry Bros. continued to deliver the premier nerd shopping and tourist attraction experience during 1995; no word as to when they plan to offer Boopsie-Buys-A-Forklift-style VR-based shopping over the Web, but consider the possibilities.



John Gage
Chief Scientist
Sun Microsystems

In addition to his more wizardly responsibilities, Gage spearheaded Sun's efforts in launching Net Day, a planned March 1996 event in which thousands of volunteers will converge on schools and connect them to the Internet. With today's education often a daily battle for scarce resources, such efforts are vital in enabling today's kids as tomorrow's informed and productive citizens.



Jean-Louis Gassee
President
Be

The urbane Gassee freely admits that the "killer app" for his long-awaited new BeBox has yet to be devised, but he also points out that Woz and Jobs didn't know from Visicalc, Don Estridge had no clue about the impending arrival of 1-2-3, and none of the Mac's creators really envisioned PageMaker either. It remains to be seen whether the hip, hot, dual-processor BeBox, with an all-new operating system, will prosper; meanwhile Gassee garnered kudos not only for the machine's technical excellence but for providing developers something completely different to work with.

Bill Gates
Chairman
Microsoft

1995 was an eventful year even by Microsoft standards, as the long-awaited Windows 95 shipped to the tune of millions of sales, accompanied by expensive Rolling Stones music. Gates' insistence on maintaining a hungry-rat culture at Microsoft long after he and many of his employees were rich beyond the dreams of avarice has kept his company fast-moving and adaptable—qualities that have served it well as the industry dished out one obstacle after another to well-laid plans. Notable among the unexpected forces, by Gates' own admission, was the Internet, the explosive growth of which forced Microsoft at year's end to license some of its rivals' technologies and drastically revise its strategy for the fledgling Microsoft Network to a more Internet-centric model.

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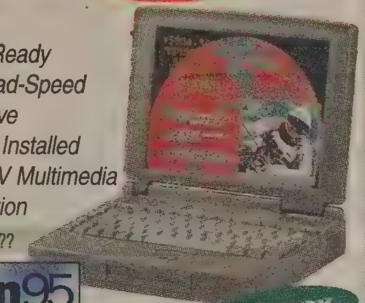

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A550CDT	Pentium™/75	8MB	524MB+CD	Active Clr	$3438.
A550CDS	Pentium™/75	8MB	524MB+CD	Dual Scan	$2858.
A550C	Pentium™/75	8MB	524MB	Dual Scan	$2388.
A450CT	486DX4/75	4MB	340MB	Active Clr	$1998.
A450C	486DX4/75	4MB	340MB	Dual Scan	$1628.

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T2105CS	486DX2/50	4MB	330MB	10.4" Dual Scan	$1698.
T2155CDS	486DX4/75	4MB	520MB	10.4" Dual Scan	$2598.
T2155CDT	486DX4/75	8MB	520MB	10.4" Active Clr	$3298.
T2400CS	486DX2/50	4MB	250MB	9.5" Dual Scan	$1598.
T2400CT	486DX2/50	8MB	250MB	8.4" Active Clr	$1798.
T2450CT	486DX4/75	8MB	320MB	9.5" Active Clr	$1998.
T3400CT	486SX/33	4MB	120MB	8.4" Active Clr	$1698.
T3400CT	486SX/33	4MB	250MB	8.4" Active Clr	$1798.
T3600CT	486DX2/50	8MB	250MB	8.4" Active Clr	$2498.
T3600CT	486DX2/50	8MB	500MB	8.4" Active Clr	$2698.
T4800CT	486DX4/75	8MB	500MB	9.5" Active Clr	$2698.
T4850CT	486DX4/75	8MB	500MB	10.4" Active Clr	$3198.
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T2100CT	486DX2/50	8MB	330MB	8.4" Active Clr	$2098.
T2110CS	486DX4/75	4MB	350MB	9.5" Dual Scan	$1698.
T410CDT	Pentium™/90	8MB	772MB+CD	11.3" Active Clr	In Stock
T410CS	Pentium™/90	8MB	772MB	11.3" Dual Scan	$3298.
T400CDT	Pentium™/75	8MB	772MB+CD	10.4" Active Clr	$3798.
T400CS	Pentium™/75	8MB	772MB	10.4" Dual Scan	$2898.
T610CT	Pentium™/90	8MB	686MB	9.5" Active Clr	$3798.

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Model	Processor	Ram	HD	Screen	Price
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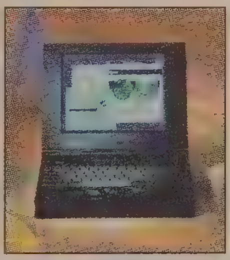
950N	Pentium™/75	8MB	800MB	10.4" Dual Scan	$2898.
950N	Pentium™/75	8MB	800MB	10.4" Active Clr	$3698.
950N	Pentium™/90	8MB	800MB	10.4" Dual Scan	$3198.
950N	Pentium™/90	8MB	800MB	10.4" Active Clr	$4198.
950N	Pentium™/90	8MB	1.2GB	10.4" Dual Scan	$3598.
950N	Pentium™/90	8MB	1.2GB	10.4" Active Clr	$4498.
950N	Pentium™/120	8MB	800MB	11.8" Active Clr	$4898.
950N	Pentium™/120	8MB	1.2GB	11.8" Active Clr	$5298.



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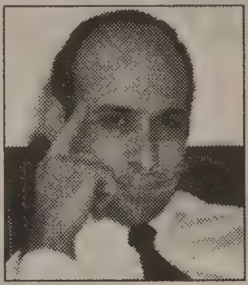
Louis Gerstner
Chairman
IBM

While the long-term future of OS/2 remains uncertain, Gerstner has reversed IBM's downward spiral and focused on developing its strengths in networked communications. Augmenting some of IBM's historic strengths in the networking area, Gerstner made headlines in 1995 by acquiring Lotus, explicitly in order to get its Notes technology.



Tony Ghanma
Founder
NCA Computer Products

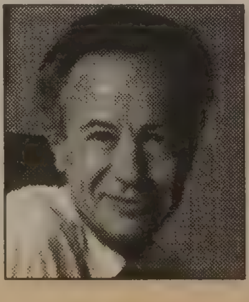
As he tells the story, Ghanma maxed out his credit cards to the tune of $30,000 to found NCA in 1988, on the theory that sheer financial terror was the mother of the successful enterprise. "Thank God," he now says, "I don't owe on those credit cards any more!" The fast-growing company, whose much-visited Web site offers extensive customer info and service, grew from sales of $1.9 million in 1991 to $68 million in 1994.

George Gilder
Author

Gilder occasionally gets carried away with glorious vision in his ongoing opus, *Telecosm*, which appears in each issue of *Forbes ASAP*. He's given to hifalutin' statements like "the desktop imperium will pale and wither before the telecosmic amplitudes of the Internet," and industry executives take turns praising his insight and sending forth "Earth to George" messages. Nonetheless, he occupies a unique spot among technology analysts, considering the business of technology in the context of what he maintains is a radical and imminent paradigm shift from a standalone to an infinitely connected world, with the Internet as its central nervous system.

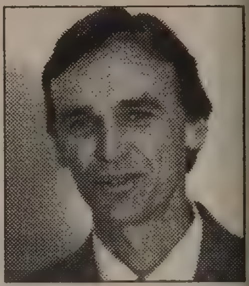
Bill Gross
Chairman and Founder
Knowledge Adventure

Gross started Knowledge Adventure with the goal of creating educational software that rewarded kids' desire to explore. Today he's brought the company to a recognized leadership position in edutainment with the Adventure science series, augmenting KA's strengths with the 1995 acquisition of Fanfare Software and its the JumpStart early-education products.



Andy Grove
CEO
Intel

Grove is fond of remarking that only the paranoid survive, and his relentless lack of complacency has kept Intel well ahead of its competition on numerous fronts. There was no repeat of 1994's floating-point debacle, as the Pentium found unexpectedly strong demand in the consumer market as well as the business world, the long-awaited Windows 95 further entrenched what's becoming known as the Wintel standard, and the next-generation Pentium Pro showed there was plenty of life in the -86 yet.



Mark Hass
Steven Wyatt
Co-Founders
Computer Recycling Center, Inc.

Hass and Wyatt founded this multifaceted Bay Area operation with the notion that, as Hass puts it, "technical professionals can reduce crime, improve our children's education, and reduce toxic and hazardous landfill by refurbishing older computer technology, software and books, and placing them into the hands of the have-nots in our community." The nonprofit organization, with facilities in Mountain View and Santa Rosa and future sites in Oakland and San Francisco, offers technical training and donates the refurbished machines to schools and nonprofits. In 1995, they produced a number of notable events: the Computers For Guns exchanges, donations of 1,000 computers and Internet training to San Francisco schools, and the nation's largest one-day computer giveaway, donating 1200 computers to 250 teachers.

William Randolph Hearst III
General Partner
Kleiner Perkins Caufield & Byers
Acting CEO
@Home

Another of the year's dramatic paradigm shifts—Hearst leaving the family business (ten years as editor and publisher of the *San Francisco Examiner*) to become, first, a general partner at the moving-and-shaking VC firm Kleiner Perkins Caufield & Byers, then acting CEO of @Home, KP's joint venture with cable giant TCI. Pushing cable as a solution to the notorious Last Mile problem, he points out that its current technology offers far better speeds than what most Web users are currently struggling with; he's got the @Home team developing technology to allow cable providers to connect their users to the Internet.

It remains to be seen whether Hearst will achieve his ambitious goal of one million users by the end of this year. But with ever more users piling onto an ever more bottlenecked Web to use ever more demanding services, he may well find a receptive audience.

Dave Hughes
Managing Partner
Old Colorado City Communications

In 1995 Hughes and a team of experts won a grant from the National Science Foundation to deploy and test unlicensed-spectrum wireless modems in the schools of rural Colorado. While Hughes is candid about the perfectly real hazards of the transmitters being covered by snow or devoured by bears, he's also a zealous evangelist for the benefits available from the unlicensed radio spectrum if it remains unlicensed. Using the spread-spectrum technology Hughes and his team are installing, students

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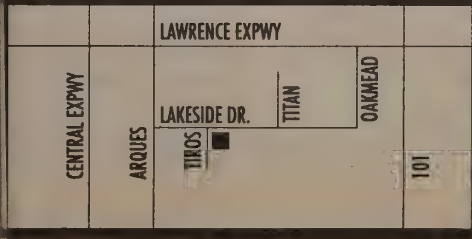

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Reed Hundt
Chairman
FCC

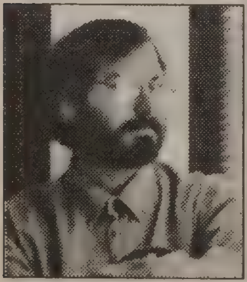
Caught in the crossfire of warring constituencies, all of whom think communications law should be reformed in some way more favorable to themselves, Hundt has made commendable efforts to weigh all the necessary issues and interests in evolving policy. Given that he's besieged by some who want to abolish his office entirely and hand over the airwaves as property to their current licensees, and others who want him to keep all communications within our borders suitable for K-12 audiences, he's got his work cut out for him.

Larry Irving
Assistant Secretary for Communications and Information; Administrator of the National Telecommunications and Information Administration
US Department of Commerce

Irving is a compelling advocate for getting the benefits of technology into the hands of all Americans. Among his responsibilities in the department is the Telecommunications Information Infrastructure Applications Program (TIIAP), which seeks to combine government and private funding for innovative applications of telecomm technology in the areas of health, education, and community development.

Tim Jenison
President
NewTek

With new owners showing signs of restoring the Amiga platform to viability after a long hiatus, Jenison and crew deserve most of the credit for keeping the machine going during the years of Commodore's clue-impairedness and ultimate demise. Thanks to their Video Toaster and their loyalty to the Amiga in the face of strong incentives to abandon it, the machine's tenacious users were able to carve out a market niche in the multimedia field.



Steve Jobs
Chairman and CEO
NeXT

Contrary to dire predictions after his decision to get out of the hardware business, Jobs has kept NeXT successful in a demanding corporate and government marketplace. NeXT step: the Web, where he's hoping the company's object-oriented technology will give it some advantages in an increasingly hardware-independent environment.

Jobs was also in the headlines in 1995 because of the long-deferred and prodigiously lucrative stock offering of his *other* company, Pixar, in the wake of *Toy Story*.

Reese Jones
Founder and Chairman
Farallon

Having steered the company's directions since the days of BMUGnet, Jones keeps it a leader in cost-effective networking innovation and strategic alliances with other vendors. 1995 saw the advent of the Netopia Internet Solution kit, allowing users to be up and running on the Internet with an all-in-one package and unprecedented ease of use.

Bill Joy
Founder and Vice President for Research
Sun Microsystems

Back in 1990, looking at Microsoft's dominance of the PC marketplace, Joy retired to Aspen to work on advanced projects and contemplate Sun's future direction. He stated at the time that he figured Microsoft would continue to control the market until about 1995, at which point "there would be a breakthrough that we cannot imagine today." Further, he proposed a radically different business philosophy that came to be known as Joy's Law: "Most of the bright people don't work for you—no matter who you are. You need a strategy that allows for innovation occurring elsewhere."

The project he launched five years ago as Sun Aspen Smallworks resulted, after several mutations and a lot of work by programming wizard James Gosling, in Java, a key component of Sun's strategy for the aggressively platform-independent Web.

Philippe Kahn
Chairman
Starfish Software

Amid mixed reviews, but with the company's fortunes on the upswing, Kahn left Borland last year to return to his entrepreneurial roots with Starfish, taking Borland's evergreen Sidekick with him. Starfish's first releases, Dashboard and a much-enhanced Sidekick, are doing well, and Kahn has announced a strategy involving Java-based applets.

His decision to focus on the burgeoning small/home office market was driven, he says, not only by its huge growth but because of some fundamental differences from the corporate world: buying decisions are made by individuals, and those individuals are now linked to a global array of options.

At the recent PC Outlook, he suggested that one of the net's most fundamental effects on the working world is that much in the way the corporate world has used Lotus Notes as a platform for collaboration, individuals and small businesses are flocking to the Web: "What the Web brings us is a way to have a wide area infrastructure instantly"—an infrastructure, he points out in a remark calculated to chill many an established vendor, that was designed by the Department of Defense as dependable and fault-tolerant enough to withstand nuclear attack.

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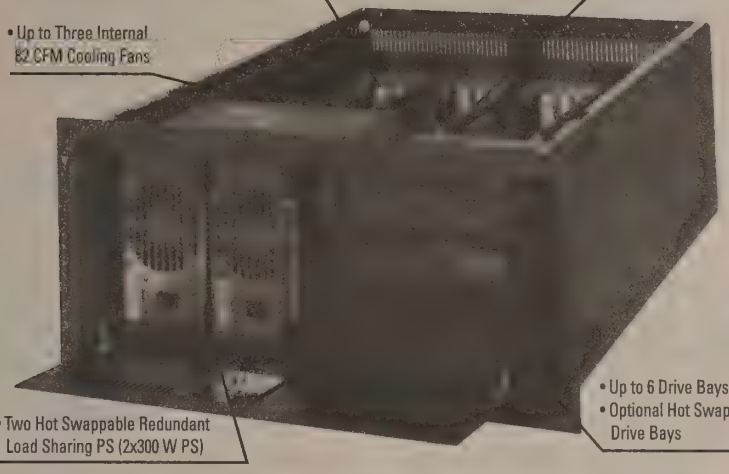

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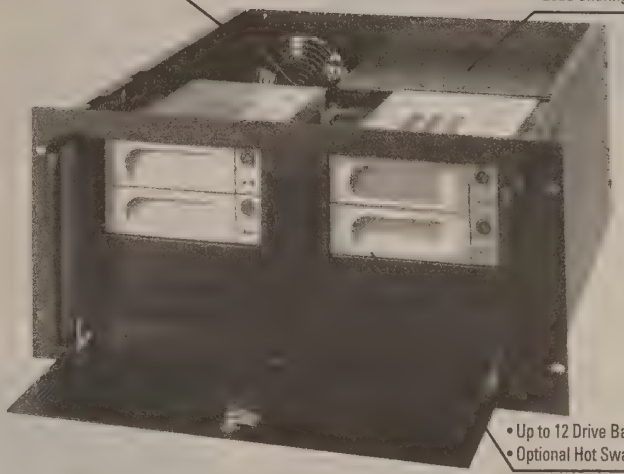

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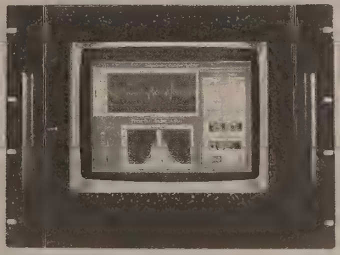

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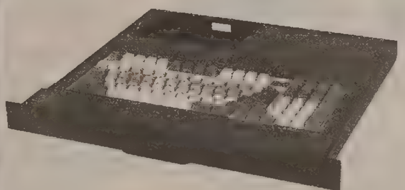

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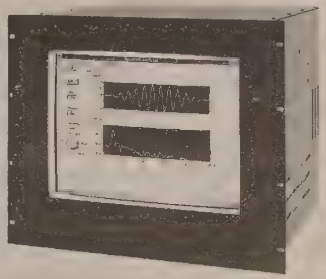

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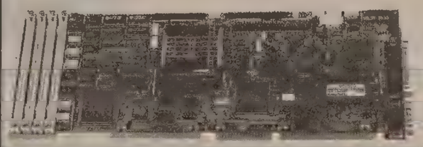

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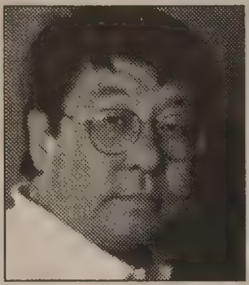


Steve Kahng
President & CEO
PowerComputing

PC clone executive Kahng (he worked on the design of what became Daewoo's Leading Edge Model D, then served as senior vice president at Chips & Technologies) is considered by many to be the Mac OS's best hope of survival. The first licensee of the Mac OS, Power Computing hopes to offer the best of both worlds—our management, says Kahng, all comes from the PC side. The engineers are from Apple.

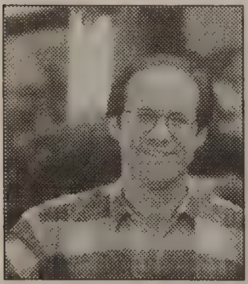
So far its PowerPC-based systems, made to order in the US and sold direct, have made Power the fastest-growing PC system company in history; this in turn is good news for Apple and the PowerPC architecture, as a potentially larger market attracts developers.

Guy Kawasaki
Apple Fellow
Apple Computer

Prolific author, frequent speaker, and unquestioned high priest of the church of Macintosh, Kawasaki was appointed an Apple Fellow in 1995. While it is, perhaps, more usual, for Apple Fellows to be rocket-scientist types like Alan Kay and Bill Atkinson, Apple cited Kawasaki's "extraordinary leadership contributions to personal computing." And indeed, Apple's in sore need of the fervor and zeal Kawasaki so masterfully generates.

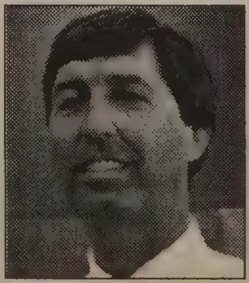
Will he be able to revitalize the now thoroughly demoralized third-party developer community he helped build ten years ago? Will he find the miracle cure for the malaise afflicting Apple's floundering corporate culture, which often more closely resembles the Dysfunctional Family Circus than The Power To Be Your Best? Will he, as part of his charter to work with user groups, be an eloquent voice for The Macintosh Way in the halls of Cupertino?

We sure hope so!



Steve Kirsch
Founder/President
InfoSeek

Kirsch, whose previous successful startups are Frame Technology and Mouse Systems, appears to have another winner with Infoseek, which provides a variety of Internet-based data retrieval services, with an un-traditionally low price tag and accessible interface. Going head-to-head with entrenched, pricey, and often user-hostile proprietary services, InfoSeek offers connect time and 100 queries and article retrievals for $9.95 a month—Web site queries are free, and InfoSeek's access to a broad range of archives and databases is garnering praise from researchers. It's also the Web search engine chosen for Microsoft Network.



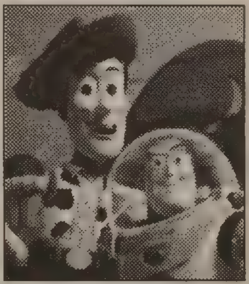
Bill Krause
President and CEO
Storm Technology

Former 3Com chairman Krause founded Storm in 1990 to take advantage of an emerging market—photography, he says, is the single largest consumer expense in the US, and emerging JPEG compression technology would combine with better PCs and printers to shift consumer photography from chemical to digital. This revolution is far from being a *fait accompli* yet, but it's being helped along dramatically by some of Storm's first products: the Picture Press compression utility and PhotoFlash, software licensed to Apple allowing the easy incorporation of pictures into page layouts. Storm's real coup in 1995 was EasyPhoto, a attractively priced Windows-or-Mac consumer product for scanning photos, editing them, and placing them into documents.

Gary Kremen
Founder, Executive Vice President, Chief Technical Officer
Electric Classifieds Inc.

Our email was inundated with testimonials to Kremen's extreme worthiness to be on this year's list. While some of these missives bore telltale evidence of digital formletterhood, others displayed remarkable creativity and apparently heartfelt zeal.

From which we deduce that Kremen is no slouch as a promoter, but also delivers the goods. The success of the Match.com personals service ("bringing love to the planet!" enthused several correspondents) has served as an effective demonstration for Kremen's technology, software called Middleware that serves as a vital bridge between online databases and the ever-proliferating number of browsers with which users access them. While the software's long-term applications for online commerce are varied, Kremen's initial goal is to adapt traditional classified advertising to the Web, with Match.com soon to be joined by Jobs.Com, Housing.Com, and Autos.Com.



John Lasseter
Director
Toy Story

Since 1986, when his *Luxo Jr.* was nominated for an Oscar, Lasseter has been demonstrating an uncanny ability to endow computer-generated characters with engaging stories and appealing personalities. *Luxo* was followed by the beloved *Red's Dream* and *Tin Toy* (which became the first computer-animated work to win Best Animated Short Film, in 1989), not to mention the ultimate paperweight nightmare, *KnickKnack*.

Lasseter's first full-length work ensconced Woody, Buzz Lightyear Space Ranger, and their friends in the hearts of millions during the holiday season, and had the ancillary effect of raising the stock price at Pixar's providentially timed IPO to infinity and beyond.

James Liggins
Founder
Inner City Computer Society

Born in Mississippi, Liggins moved to South Central Los Angeles as a teenager. Weathering the hazards of gangs and aerospace layoffs, he worked a variety of jobs and went to school until one day his employer got the office some PCs. Teaching himself everything he could, Liggins got his first PC in 1986 and ran a successful computer assembly business for several years thereafter, while still working full time. He also developed BBS systems and familiarized himself with the net, and realized that very few of

continued on page 250

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4,120

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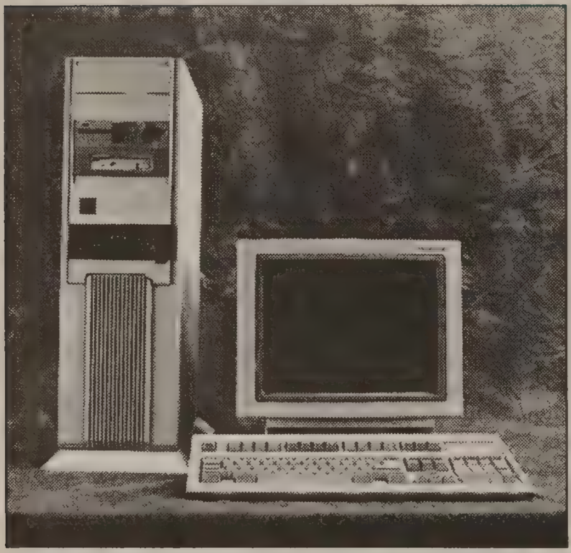

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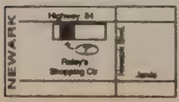
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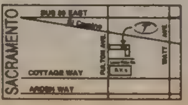
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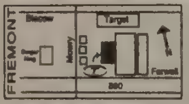
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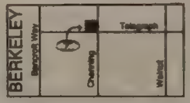
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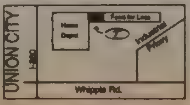
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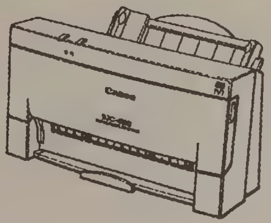

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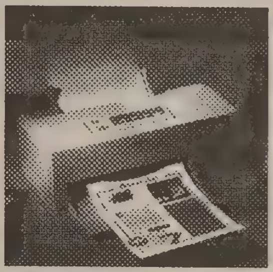

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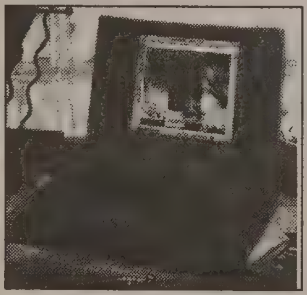

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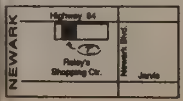
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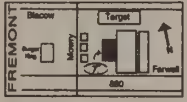
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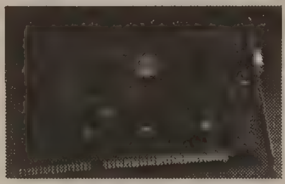
Video Cards



GXe64 Pro 4MB VRAM PCI, ADN94P	499.00
Imagine 1600x1200 4MB PCI, ADN9128P	559.00

DIAMOND MULTIMEDIA

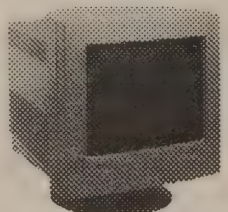
Stealth 64 2MB VRAM PCI, ADN432P	249.00
Stealth 64 4MB DRAM PCI, ADN434P	399.00
Stealth 64 2001 2MB DRAM PCI, ADN402P	169.00

matrox VIDEO PRODUCTS GROUP

MGA Millenium 4MB PCI, ADN604P	449.00

Monitors

14" Paper White VGA Monitor MTUO14M	$99.00
KFC 14", .39 110/220V MTK1439	199.00
Impression 14", .28 102V MTI3428N	249.00
Tatung CM14VHE 14", N/I MTT14UME	249.00
ViewSonic 14ES 14", .28, 1024 MTV206	259.00
Mitac A1775 17" SVGA MTM1775	599.00
Panasonic C179IE 17", .28, 1280 MTP1791	699.00
MAG DX17F 17", 1280 MTM17F	699.00
Sony 20SE 20", 1600 (OEM) MTS20SET	1599.00
Nanao F2•17 17", .28, 1280 @ 66Hz	899.00
Proton 1449A, 14", 1024, .28, Built-in speakers	249.00
ArtMedia TC1664, 15", .25, 1280 (15sf)	449.00
ArtMedia TC1864, 17", .25, 1280 (17sf)	789.00
ArtMedia TC2185 20", .31, 1600 (20 sec)	1799.00
ArtMedia SM1764 17" (Hitachi OEM)	399.00



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MultiSync XE15

15" Color Display

- 15" SVGA monitor
- .28mm dot pitch
- 1024x768 @76Hz
- Anti-glare surface
- 3 year limited warranty

in-stock!

$599

MultiSync XE17

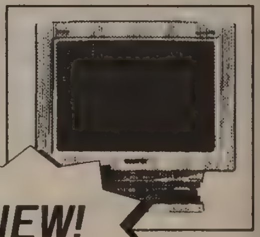
- 17" SVGA monitor
- 0.28mm dot pitch
- 1024x768 @ 76Hz

in-stock!

MTNXG17 $949

XV17 17" 1280x1024 @ 60Hz $749.00

SONY



Multiscan 15sf II

- 15" Trinitron CRT
- Sony MultiScan Technology
- 13.9" max viewable area
- .25mm dot pitch
- 1280x1024 @ 60Hz

NEW!

MTS17SE $489

MultiScan 17sf II

- 17" Trinitron CRT
- Sony MultiScan Technology
- 16.0" max viewable area
- .25mm dot pitch
- 1280x1024 @ 60Hz
- For PC or Mac

New Monitor!

MTS17SF $869

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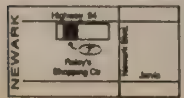
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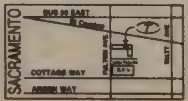
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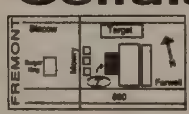
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USRobotics
The Intelligent Choice in Data Communications

V.34 28.8

Internal Sportster Fax Modem

ADV2881 **$175**

Si	14.4, Int/Ext	$ 49/59.00
V.34	14.4, Int	99.00
28.8	External	199.00
28.8	External w/ Personal Voice Mail	229.00
Best Data	14.4 Internal Fax Modem ADB144I	69.00
Adtech	14.4 Internal Fax Modem ADC1414H	89.00
Multitech	14.4 External Fax Modem ADC1932	99.00

HEWLETT PACKARD

ScanJet 4S
Personal Desktop Scanner

New!

- Compact size
- 400dpi enhanced
- File, fax & e-mail documents
- Fast scanning less than 10 sec for typical page

$349

NEC 7 CD Changer

MultiSpin 4Xc

Best Buy!

- Quick access for up to 7 CDs
- Supports Multisession PhotoCD, MPC2 & Quicktime
- 300KB/sec data transfer rate
- 360ms access time

HDN302 **$129**

Apple Power Mac Computers

7200/90
- 16MB RAM • 4X CD-ROM Drive
- 16-bit stereo audio • 500MB

CAM7290C **$1999**

7500/100
- 16MB RAM • 1GB Hard drive
- 24-bit composite & S-video input
- 4X CD-ROM Drive

CAM75100 **$2899**

8500/120
- 16MB RAM • 2GB hard drive
- Up to 320x240 pixel capture at 25 frames/sec
- 4X CD-ROM Drive

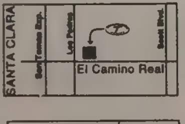
CAM8500X **$4099**

9500/120
- 16MB RAM • 1GB hard drive • 6 PCI slots
- 4X CD-ROM drive • Background file sharing
- Built-in ethernet networking

CAM95120 **$4199**

Hard Drives

Quantum 1.08GB, IDE, 12ms, HDQ1080	209.00
WESTERN DIGITAL	
540MB, 11ms, HDW2540	164.00
1.08GB, HDW2100	219.00
1.2GB, HDW3120	259.00
Maxtor	
540MB, IDE, 12ms, 7540AV	169.00
850MB, IDE, 12ms, 7850AV	183.00
1.2GB, IDE, 12ms, 71260	259.00
1.6GB, IDE, 12ms, 71626A	299.00
CONNER	
540MB, IDE, 12ms, HDC541A	165.00
850MB, IDE, 12ms, HDC850A	184.00
1.2GB, IDE, 12ms, HDC1275A	259.00
1.6GB, IDE, 14ms, HDC1621A	289.00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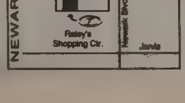
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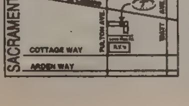
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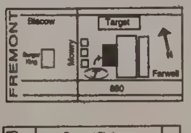
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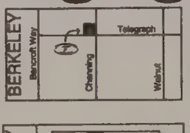
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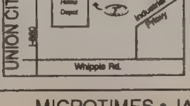
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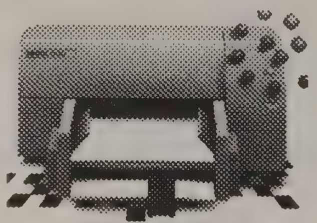
HEWLETT PACKARD

DeskJet 855C
Color Ink Jet

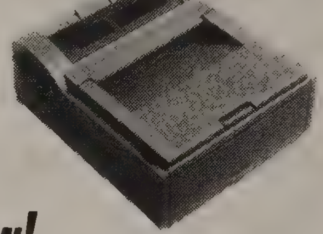


- Up to 7ppm (B/W)
- Up to 3ppm (color)
- Dual I/O for PC or Mac
- 26 scalable fonts

PTA855C **$499**

DeskJet 600C/660C Color Ink Jet	289/369.00
DeskJet 1600C/1600CM	1399/1989.00
LaserJet 4V/4MV	1899/2699.00
LaserJet 4+/4M+	1399/1869.00
LaserJet 5L	479.00
LaserJet 5P/5MP	829/969.00
LaserJet 5si/5siMX	2799/3699.00

OKIDATA



OL-600e Laser
- 6PPM printing speed
- 600dpi class
- 1MB exp to 18MB
- 44 bitmap fonts
- 5 year printhead warranty

New!

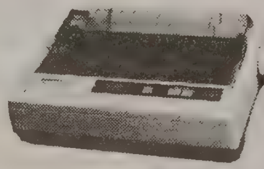
$399

OL-400e Laser
- 4PPM printing speed
- 300dpi class
- 512K RAM exp to 4.5MB
- 44 bitmap fonts
- 5 year printhead warranty

Lower Price!

$349

Panasonic
Office Automation OA



Dot Matrix Printer Sale
- 24-pin letter quality
- 2 year limited warranty
- 2nd inventory printer

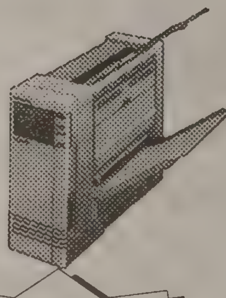
6' Molded Printer Cable
79¢ XCA006

SALE!

KX-P2023	$139.00
KX-P2123	149.00
KX-P2130	159.00
KX-P3626	289.00

Panasonic
Office Automation OA

KX-P4400
Laser Printer



- 4ppm LED Page printer
- 1MB RAM exp to 4MB
- 100-sheet multipurpose tray
- 28 internal bitmap fonts
- 1 year w/ 5 year printhead warranty

Mac Printer Cable
99¢ XMM881

PTP4400 **$279**

KX-P5400 Postscript, PTP5400	349.00
KX-P1150 PTP1150	139.00

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S. Mary

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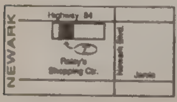
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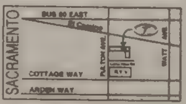
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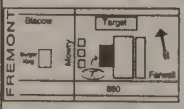
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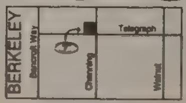
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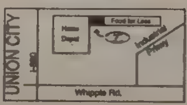
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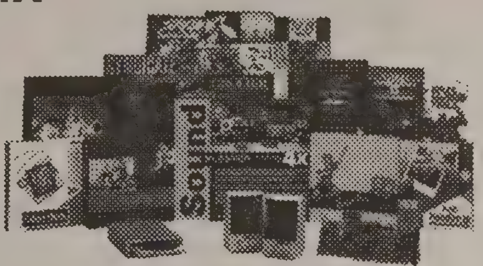
CREATIVE
CREATIVE LABS, INC.

SoundBlaster
Discovery CD 4X Multimedia Kit

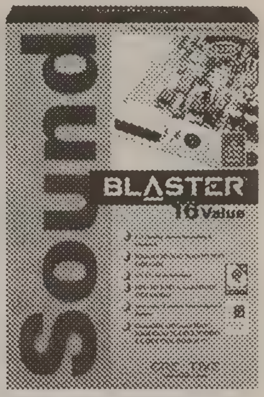


- SoundBlaster 16 Pro sound card
- 4X CD ROM Drive
- Microphone & speakers
- 15 top selling CD Titles

ADS125 **$339**

SoundBlaster Value CD 4X ADS121 **269.00**

SoundBlaster
16 Value Edition Sound Card

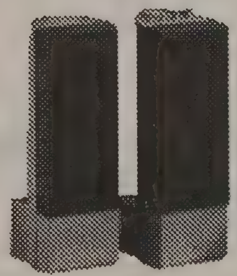

Sound
BLASTER
16 Value

- 16-bit stereo sampling & playback
- Advanced 20-voice synthesizer
- MIDI interface
- Power amplifier

ADS115 **$82.95**

SoundBlaster 16 VIBRA...ADS115T **$79.00**
SoundBlaster 16 MCD ASP ADS114AT **99.00**
SoundBlaster 32 IDE...ADS118 **149.95**

NEC
AudioTower Speaker



- 3 1/4" shielded driver
- 8 watt per channel
- Built-in amplifier

ASN001 **$69**

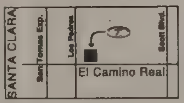
Labtec
SS-100
Amplified Stereo Speakers

- Deluxe bass & treble booster
- Individual volume control
- External DC jack

ASL100 **$8.00**

CD-ROM DRIVES

Mitsumi 4X IDE.................. HDM400 $119.00
TOSHIBA 6X IDE.................. HDT3701I 329.00
TEAC 6X IDE HDT56E 179.00
NEC 6Xi IDE SCSI.................. HDN502 429.00
NEC 6Xi SCSI OEM HDN512 329.00
NEC 4Xe External SCSI.............. HDN601 448.00
6X CD ROM Upgrade Kit w/ Sound card... ADS260 349.00
Diamond Multimedia 8X Kit........... ADS320 549.00
Diamond Multimedia 800 Kit ADS330 349.00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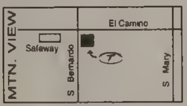
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S Mary

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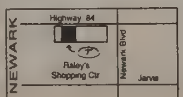
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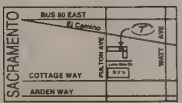
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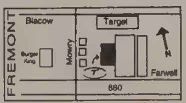
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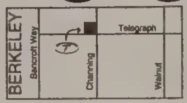
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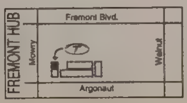
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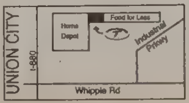
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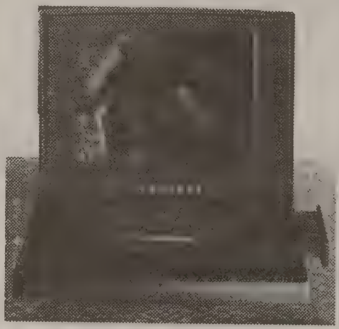

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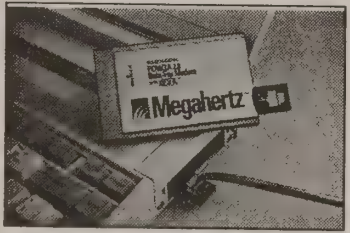

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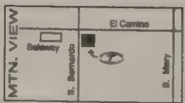
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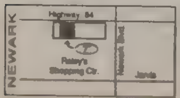
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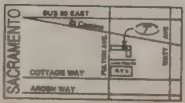
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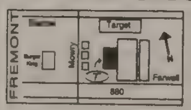
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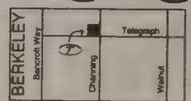
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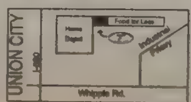
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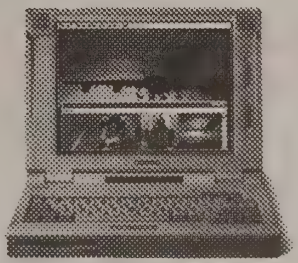

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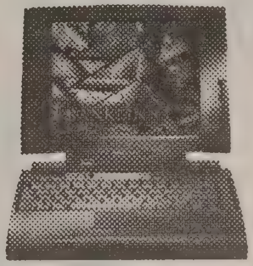

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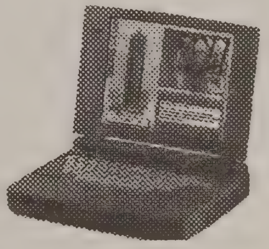

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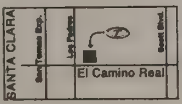
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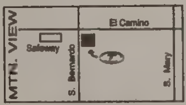
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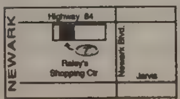
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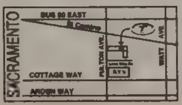
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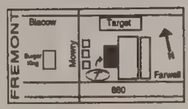
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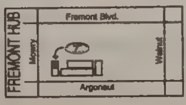
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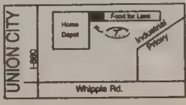
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BMUG's Gurus Make Their Predictions

Dust Off The Crystal Balls, Reshuffle The Tarot Cards, And Fasten Your Seatbelt

By David Morgenstern

This month we get members of the BMUG brain trust to pull out their crystal balls and virtual tarot cards to take a peek at the year ahead. Usually found sitting at the back of BMUG meetings, this crew is well connected to the Mac community as well as to trends in the entire computer industry.

Some of the topics may be a byte arcane for some readers, over our heads, or way over the top. When necessary, I will insert some explanations for the ever-present alphabet soup of industry acronyms and buzz words.

But that doesn't mean that you should bank on our prognostications—they're not all solid gold. The Talmud says: "Woe to him who makes a door before he has a house, or builds a gate and has no yard." The prudent reader will use the predictions as a roadmap, rather than as a guaranteed timeline of the forthcoming year's events.

> ***The Talmud says: "Woe to him who makes a door before he has a house, or builds a gate and has no yard." The prudent reader will use the predictions as a roadmap, rather than as a guaranteed timeline of the forthcoming year's events.***

For example, last year it was predicted that Bandai, the Japanese game company, would sell more than five hundred thousand Power Player game machines. The $500 product is based on Pippin, Apple's Mac-based game-box clone. Unfortunately, the device has yet to ship and is not expected to hit the shelves for months.

The prediction may yet hold true, but a year late. Apple and Bandai said last month that they will reposition the Pippin clones away from games and emphasize its capabilities as a low-cost Internet platform. The "game player" has inputs for a keyboard, hard drive, and modem.

Onward!

The Long And Whining Road

•Steve Costa, *MacWorld* online administrator and former BMUG director: Apple will not be bought out this year. But being bought isn't what Apple has been talking to other companies about anyway—there are other possibilities here! The good news for Apple and the Mac OS is that US market share will reach 15% by next summer.

Oracle's network box will be a flop. And so will all the others.

•Brian Foster, BMUG's government market expert and consultant: Apple will incur no fewer than three major reorganizations in 1996, and at the end of the year, Apple's market share will not have risen or fallen much.

IBM will ship PowerPC CHRP boxes in numbers that will be microscopic in comparison to Apple's shipments. [CHRP is Common Hardware Reference Platform, a standard for computer motherboards that use the PowerPC chip. The boards can run different operating systems, including Mac OS, OS/2, Windows NT, and Solaris. Apple and others said they will ship the boxes next fall.]

IBM will also discover that its technical support staff will not be capable of handling Mac-specific questions. This will lead to the end of the joint partnership, except at a basic hardware (PowerPC chip) level.

Apple will not die, but it will be swallowed up by Oracle, at which time Larry Ellison will try to mold the Macintosh into something it is not. The result will make the Mac's future even more tenuous. Larry Ellison will declare, "Molding the Mac is better than sex!" [Brian believes that the second time will be the charm for Oracle, which admitted recently that they were trying to buy Apple.]

Apple will release one and only one hot, cool new technology that no one expected. Unfortunately, it will not sell very well, because it's way too cool.

•Stephen Howard, *MacWEEK* executive editor and former BMUG Board member: The year ahead will be the best year for Apple CPU cus-

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- ✓ Motherboard w/ 256K Cache
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- ✓ Floppy Drive 1.44Mb
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- ✓ Window Accelerator PCI w/1Mb
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- ✓ Mini Tower Case w/ 230 Watts Power Supply
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66MHz

$ 978

- ✓ Motherboard w/ 256K Cache
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- ✓ CPU Cooling kit w/ Heatsink & Fan
- ✓ 4Mb Ram installed (72-pin)
- ✓ EIDE Controller PCI 4HD & 2FD w/ 2s, 1p, 1g
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- ✓ Window Accelerator PCI w/1Mb
- ✓ 14" Super VGA Color Monitor (1024 x 768) .28 NI
- ✓ 101 Keys Enhanced Keyboard
- ✓ Mini Tower Case w/ 230 Watts Power Supply
- ✓ Logitec Serial Mouse
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- ✓ Sound Blaster 16-bit Sound Card
- ✓ Pair of Speakers

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- ✓ Sound Blaster 16-bit Sound Card
- ✓ Pair of Yamaha Amplified Speakers (YST-M5)
- ✓ Windows 95 CD-ROM *Pre-Loaded* Full Version

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75MHz

$ 1,108

- ✓ Intel Triton Chipset Motherboard
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- ✓ Windows Accelerator PCI w/ 1Mb (64-bit)
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- ✓ 101 Keys Enhanced Keyboard
- ✓ Mini Tower Case w/ 230 Watt Power Supply
- ✓ Logitec Serial Mouse

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75MHz

$ 1,368

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- ✓ CPU Cooling kit w/ Heatsink & Fan
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- ✓ EIDE Controller 4HD & 2FD w/ 2s (16550), 1P (EPP)
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- ✓ 101 Keys Enhanced Keyboard
- ✓ Mini Tower Case w/ 230 Watt Power Supply
- ✓ Microsoft Ergonomic Serial Mouse
- ✓ Quad Speed 4X CD-Rom Drive
- ✓ Sound Blaster 16-bit Sound Card
- ✓ Pair of Yamaha Amplified Speakers (YST-M5)

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75MHz

$ 1,648

- ✓ Intel Atlantis Motherboard
- ✓ 256Kb Cache (Pipelined Burst Sram)
- ✓ Intel CPU P5-75MHz
- ✓ CPU Cooling kit w/ Heatsink & Fan
- ✓ 8Mb RAM Installed (72-pin)
- ✓ EIDE Controller 4HD & 2FD w/ 2s (16550), 1P (EPP)
- ✓ Floppy Drive 1.44Mb
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- ✓ Keytronic 101 Keys Enhanced Keyboard
- ✓ Super Mini Tower Case w/ 230 Watt Power Supply
- ✓ Microsoft Ergonomic Serial Mouse
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- ✓ Pair of Yamaha Amplified Speakers (YST-M5)
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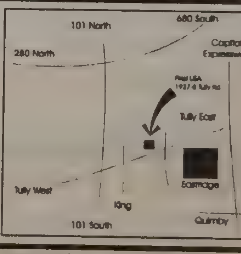

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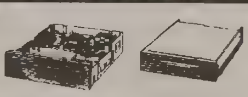

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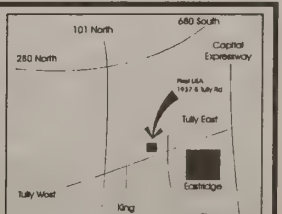

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ATLAS PCI-90/100Mhz,256K,4xPCI/4xISA,2xIDE/IO,2S/1P,AMI PNP/Bios..	$ 459
Apollo PCI-75/133Mhz,Triton,256K,4xPCI/4xISA,2xIDE/IO,2S/1P,PNP/Bios	$ 319
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MS-5122-75/133Mhz,SIS,256K Pipeline,3xPCI/4xISA,2xIDE/IO,2S/1P,AMI.......	$ 249
MS-5120-75/133Mhz,Triton,256K/Pipeline,PCI/ISA,2xIDE/IO,2S/1P,AMI	$ 259
MS-4144-80/100Mhz,SIS,256K,PCI/ISA,Super 2xIDE/IO,2S/1P.AMI.........	$ 149
BIOSTAR GROUP	
MB-8500TAC-75/200Mhz,Triton,256K Pipelined,PCI/ISA,IDE/IO,2S/1P...	$ 239
MB-6500SAC-75/200Mhz,SIS,256K Pipelined,PCI/ISA,IDE/IO,2S/1P...	$ Call
MB-8433UUD-33/133Mhz,486/UMC,256K,PCI/ISA,IDE/IO,2S/1P.AMI...	$ 129
MB-1433UIV-66/120Mhz,486/UMC,256K,ISA/VLB,Green,4x30/2x72-pin.	$ 109
TYAN Computer	
S-1462-90/100Mhz,**Dual/P**,Neptune,256K,PCI/EISA,Up to 512M,AMI....	$ 498
S-1466-75/150Mhz,Triton,256K PipeLine,4xPCI/4xISA,2xIDE,AMI.........	$ 259
TitanIII-75/200Mhz,TITAN III Triton,256k Pipe,PCI/ISA,2xPCI/IO,2S/1P	$ 249
M Technology Inc.	
R526-75/133Mhz,SIS,256K,3xPCI/4xISA,IDE/IO,2S/1P,8x30/4x72pin/mem.	$ 198
R525-75/133Mhz,Triton,256K Piplined,4xPCI/4xISA,IDE/IO,2S/1P............	$ 249
R418-33/100Mhz,486/SIS,256K,3xPCI/4xISA,IDE/IO,2S/1P,8x30/2x72pin..	$ 145
R407-33/100Mhz,486/SIS,256K,3xVLB/8xISA,8x30/2x72pin,Award BIOS..	$ 129
InterPro Microsystems Inc.	
IP-Triton-75/133Mhz,Triton,256K,PCI/ISA,2xIDE/IO,2S/1P,Award PNP...	$ 185
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IP-486GV4-75/100Mhz,Opti,256K,8xISA/3xVLB,4x30-pin/3x72-pin,3.3.....	$ 129
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*Mid-Tower Case w/230W P.S
*Pentium Board w/256k,Intel Triton PCI/ISA,IDE/IO,2S/1P 8MB RAM
*486 MotherBoard w/4MB RAM
CPU w/Cooling Fan:

*486DX2-66/80.............	$329/$349
*486DX4-100/120............	$379/$419
*P-90/120.........	$729/$849
*P-100/133......	$789/$ 998

Call for Updated Prices

586 PCI WIN 95' STATION
*Intel Pentium 75/90/100 CPU w/fan
*Intel Triton,PCI/ISA,w/256k Cache
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*14.4H V.32bis WinFax/Modem/Int.
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**Dual Pentium Ready*
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Intel P-75/90/100..........	$179/$259/$319
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Intel 486 DX2-50/66.................	$65/$75
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AMD 486 DX4 100/120..............	$95/$109
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Stealth 64 Video 2/4MB....... ..	$265/$419
Stealth 64 1/2MB DRAM.......	$129/$175
#9 GXe-64 1/2MB DRAM.......	$195/$239
#9 GXe-64 2/4MB Pro V.........	$339/$519
#9 Imagine 128/1600 4MB V...........	$Call
Kelvin 64 1/2MB PCI DRAM..	$159/$189
Matrox Millennium 2/4MB....	$319/$449
Matrox Impression 4MB...............	$Call
Trident 9440 SVGA w/PCI/1MB........	$75

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Toshiba 5302B,170ms,4X,IDE,Int.........	$165
Toshiba 5301B,150ms,4X,SCSI,Int.......	$229
Toshiba 3701B,135ms,6.7X,SCSI,Int....	$345
NEC CDR-512,145ms,6Xi,SCSI,Int.......	$329
NEC CDR511,220ms,4X,SCSI, Int.........	$225
Sony CDU-55E,Double Speed IDE........	$75
Sony CDU-55S,Double Speed SCSI....	$129
Sony CDU-77E,4X IDE,190ms,Int.........	$145
Sony CDU-76S,4X SCSI,190ms,Int.......	$179
TEAC CD-55A,195ms,4X IDE,Int.........	$149
TEAC CD-56A,135ms,6X,IDE,Int..........	$239
SANYO CDR-H93,66ms,4X,SCSI,Int....	$219
Mitsumi FX-400 230ms,4X,IDE,Int......	$145
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PANASONIC CR-504,4x Speed,SCSI..	$165
Creative Labs,195ms,6X,IDE,Int..........	$229
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WD31200A, 1280MB IDE,10ms.............	$295
WD31600A, 1620MB IDE, 9ms...............	$359
Conner CFS-540A 540MB IDE 12ms.....	$185
Conner CFS-850A 850MB IDE 12ms.....	$199
Conner CFS-1275A 1.2GB IDE 12ms.....	$259
Conner CFP-1080S 1.08GB SCSI 11ms.	$298
Conner CFP-2105S 2.1GB SCSI 8.5ms..	$699
Conner CFP-2107S 2.1GB SCSI 8.5ms..	$819
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Fujitsu-2915,2.0GB W-SCSI 9.5ms.......	$779
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Maxtor-71260AV 1.2GB EIDE 12ms........	$275
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BMUG *continued...*

tomers since 1993. While waiting for next-generation PowerPC platform designs and the Copland operating system, Apple will cut prices and increase shipments of Power Macs throughout the year. The company will retain its number one spot in US market share despite continuing supply problems.

Apple will begin a selective, semi-public beta program for Copland. The software will be very buggy, will leak everywhere, and will damage Apple's reputation. Meanwhile, lots of users will complain that they cannot get the software and will decry Apple's "elitism."

Microsoft will begin pushing its Microsoft Network as an Internet service provider rather than as another proprietary online service. It will become the largest such provider in the country if you count the number of separate customers.

General Magic will fold or be bought by one of its corporate sugar daddies *a la* Go Corp. [Go was the creator of the before-its-time pen-centric operating system PenPoint, which was used by small notebooks from EO Inc.]

Apple will spin-out Taligent, again. Apple will retain rights to the object-oriented technology, but a much smaller group of programmers will develop the operating system portion for PowerPC platform machines.

Intuit will be the object of persistent takeover rumors, but the company will do the gobbling.

There will be a legitimate high-tech scare when someone reveals organized crime is using sophisticated networking and encryption tools.

•**David Morgenstern, *MacWEEK* associate editor and BMUG cheerleader:** Apple and its licensees will continue their strategy to explore vertical markets for the Newton platform. Instead of pushing the handheld device to anyone and everyone, the company is trying to find specific applications that can use very mobile solutions.

A big winner will be a system that tracks customers of manicure salons. The company will describe the product as a digital personnel personal digital assistant.

Another new market for Newton will be university bathrooms. A ruggedized palmtop will be set into the walls of restroom stalls for "users" to inscribe vital thoughts. The system will then send the recognized text to a large whiteboard display for everyone inside and outside the facility to enjoy; the entire day's collected thoughts will be posted to the site's Web page.

Taiwanese-based clone vendor UMAX Technologies Inc. will run into a byte of trouble with its Dino line of Mac OS clones. The estate of Dean Martin will sue the company for violation of personality copyrights. In a further complication, Hanna Barbera, creator of Fred Flintstone's Dino Dinosaur, will also allege copyright violations. The Department of State will get into the act and clear up the matter after it's discovered that the word "dino" in Chinese means "clone."

•**Jeff Songster, Claris tester, pseudo-pundit, and CIA psychic spy:** The new year will usher in CHRP boxes from a bunch of vendors. Somehow everyone will make them cheaper than Apple.

Apple/IBM/Motorola (perhaps called AIM Corp.) will eventually become a software/hardware integration, design-specification company that sells machine designs and receives license fees, but doesn't manufacture anything except software. Oh. Gee. When combined with Claris, that will make Apple look almost like the Microsoft/Intel model.

System Upgrade Center

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30-PIN TRADE-IN FOR 72-PIN?

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Get a 2nd Hard Disk to enhance your systems!

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540MB	$175	1.2GB	$268

SCSI

540MB	$190	4.0GB	$1050
1.0GB	$295	9.GB	$2995
2.0GB	$675		

External SCSI hard drive	$Call
IDE I/O card / VLB IDE I/O card	$15 / $20
Hard disk installation service (optional)	$35
Installation + data transfer service (optional)	$49

MOTHERBOARD UPGRADE

486-66/80/100MHz VLB motherboard w/4-30pin and 2-72pin slots	$99
486-66/80/100MHz VLB motherboard w/8-30pin and 2-72pin slots	$114
Intel Pentium ZAPPA PCI motherboard	$245
Intel Pentium ENDEAVOR PCI motherboard	$349
Motherboard installation service (optional)	$45

386 UPGRADE TO 486

Include 486 VLB motherboard, CPU and cooling fan

	Cyrix	AMD	Intel
486DX2-66 (5V)	$166	n/a	$190
486DX2-66 (3V)	$166	$166	n/a
486DX2-80 (3V)	n/a	$170	n/a
486DX4-100 (3V)	n/a	$204	$224

** Motherboard with CPU upgrade installation service $75 (optional)*

CPU UPGRADE

Revitalize your slow PC...

	Cyrix	AMD	Intel
to 486DX2-66 (5V)	n/a	$61-(3V)	$101
to 486DX2-80 (3V)	$60	$65	n/a
to 486DX4-100 (3V)	$90	$105	$125

486 upgrade to Pentium .... Call

** call for CPU trade-in program*

$25 labor charge for all CPU upgrade (optional)

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Colorado DJ-35C 350MB	$130
Colorado T-1000 800MB (w/Win 95 s/w)	$195
Colorado DJ-50 Jumbo 1400 1.4GB	$245
Conner TapeStor 420MB w/cartridge	$140
Conner TapeStor 850MB w/cartridge	$199

External

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BackPack 800MB parallel port	$315
SCSI tape backup	Call

NOTEBOOK MEMORY

Notebook Memory Upgrade	$Call

MEMORY

30-pin SIMM

1MB (1x3-70)	$40	1MB (1x9-70)	$44
4MB (4x3-70)	$150	4MB (4x9-70)	$159

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8MB (2x32-70)	$260	8MB (2x36-70)	$300
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32MB (8x32-70)	$960	32MB (8x36-70)	$1125

Macintosh Memory - Call

Price subject to change. Please call for current price.

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Toshiba Quad-speed IDE 5302B	$159
Toshiba Quad-speed SCSI 5301B (int)	$219

EXT. CD-ROM

BackPack 2X-speed parallel port	$295
BackPack 4X-speed parallel port	$395

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Sound Blaster 16 SCSI	$139

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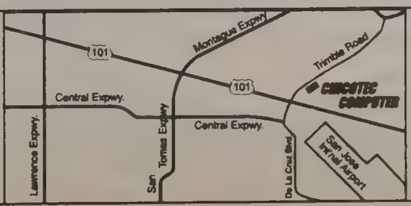

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Sony will abandon its PC clones and switch to CHRP since there's no way they can make their margins selling PC clones. A better strategy would be Super PlayStations, game machines with a faster-clocked processor and more memory.

The bigger models would also have additional ports that could interface with hard drives, printers, modems, and keyboards, yet still play those fantastic new games on my TV. A SCSI interface adapter for the current PlayStation's double-speed CD-ROM drive would be an excellent start in this direction. Hint hint, Sony.

OpenDoc will spark up a lot of small, previously unheard of developers that will bring cool apps to the world via the Internet. The small companies will become large buyout candidates quickly, and will bring fresh programming blood into some of the bigger monolithic companies.

OpenDoc will surprise people—no thanks to Mr. Gates for his recent water-muddying endorsement of the OpenDoc concept, but not the product. It seems that once again he'll go it on his own and reinvent what the rest of the industry innovates.

Around And About The Super-Duper InfoBahn

Here are some predictions for the Internet in the coming year. I don't have to go too far out on a limb to say that BMUG members will see bigger and better things from our Web page and also Internet connections to Planet BMUG, our FirstClass bulletin board service.

•**Stephen Howard:** Several interactive TV trials will officially be declared "failures" by the Baby Bells, and they will announce big new Internet-based strategies.

The $500 Internet console envisioned by Oracle and Sun Microsystems will never appear. After the breakup, the computer division of AT&T Corp. will take a shot at it. However, someone will write a World Wide Web browser for Sony's PlayStation, making the whole exercise moot.

Flash-in-the-pan Internet news #1 will be link-ups between famous graphic designers and national magazines to publish much more sophisticated-looking content on the World Wide Web using Adobe Acrobat or Microsoft Blackbird. [Acrobat and Blackbird are digital document readers. The software lets publishers take pages formatted for printing and turn them into "portable documents" that don't require special fonts or applications for showing images.]

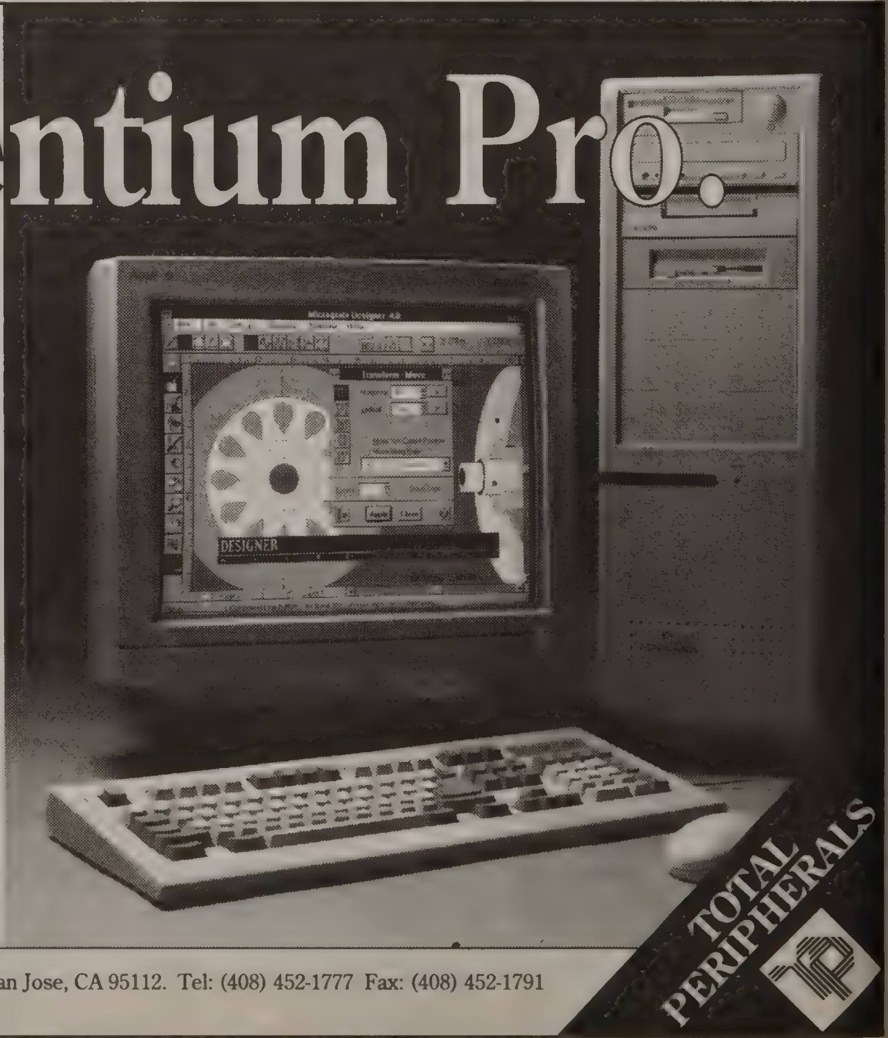
Flash-in-the-pan Internet news #2 will be companies and individuals connecting to the expanded information infrastructure of imaging and GPS satellites, automated municipal and federal tracking systems (for water, power, traffic), plus government databases and reports.

•**Bruce Linde, Mac and Windows consultant and Web site designer:** This year will see more and more people getting email addresses and not using them.

Cable television providers will offer Internet access. Users will have a new choice: whether to purchase televisions that run Windows or the Mac OS.

More people will realize that there is no

continued on page 266



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MS Money, MS Entertainment Pack etc ...

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90Mhz Pentium $2,055
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Laser Jet 5L/5P	$519/$849
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Mini Green Tower Case w/230W PS
Mitsumi 101 Enhanced Keyboard
MS Mouse Compatible w/Pad
CPU Heatsink and Cooling Fan
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MS Mouse Compatible w/Pad
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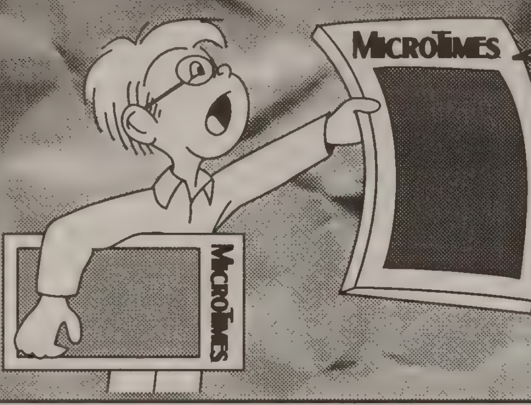

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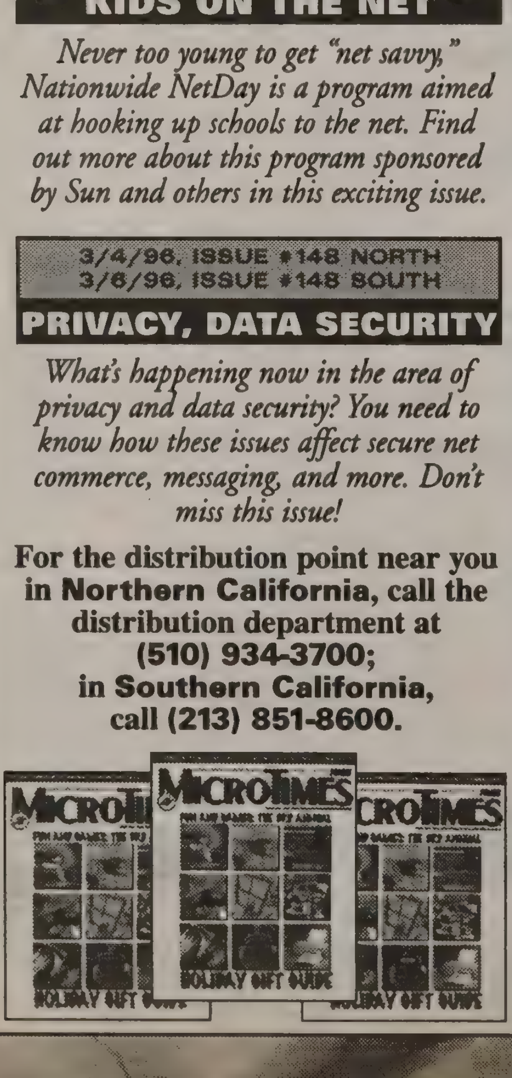

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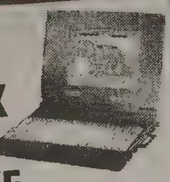

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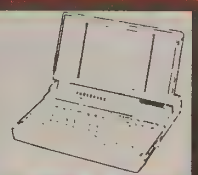

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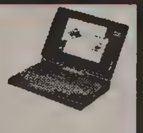

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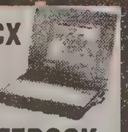

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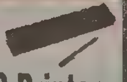

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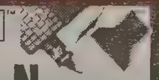

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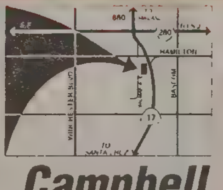

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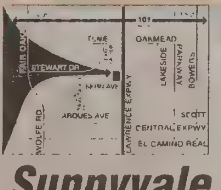

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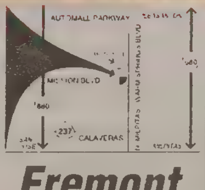

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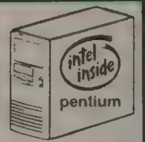

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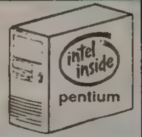

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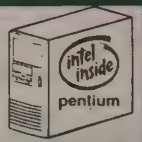

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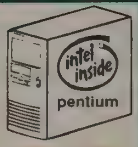

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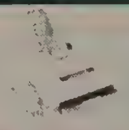

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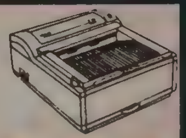

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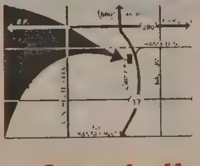

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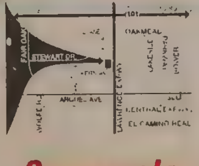

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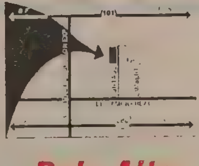

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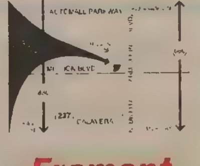

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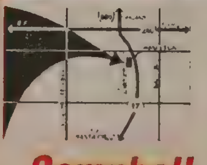

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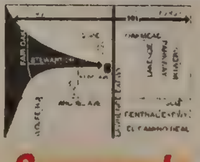

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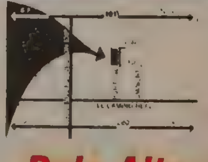

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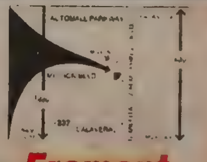

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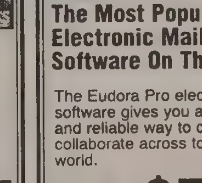

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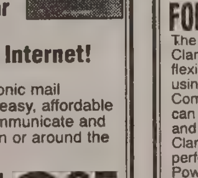

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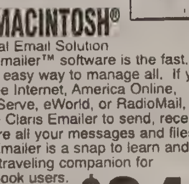

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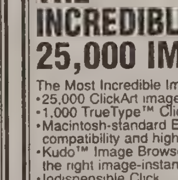

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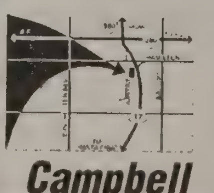

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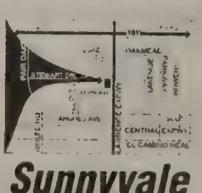

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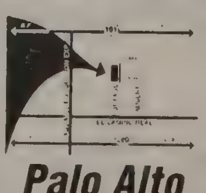

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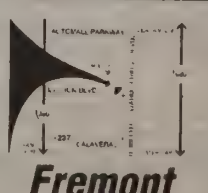

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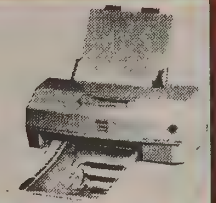

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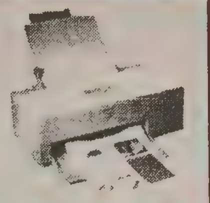

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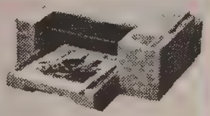

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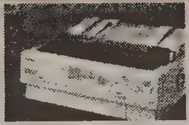

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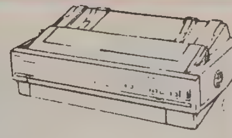

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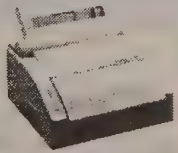

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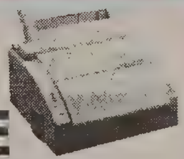

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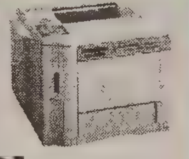

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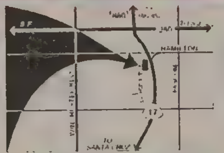

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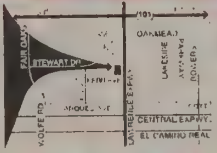

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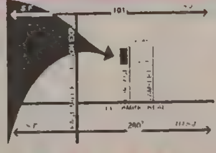

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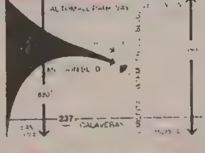

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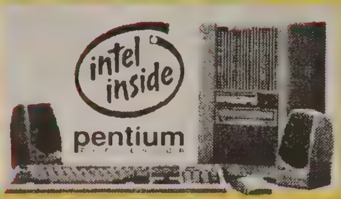
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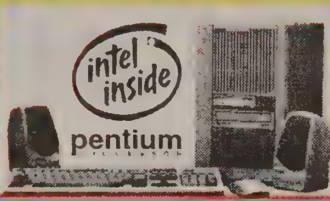
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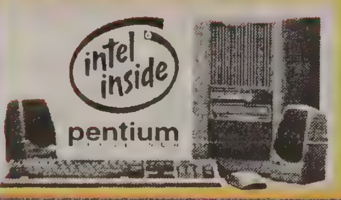
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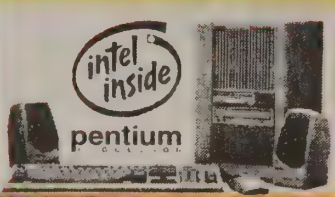
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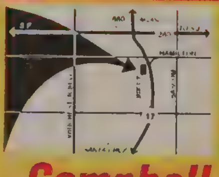
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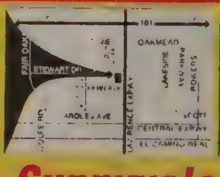
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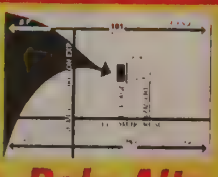

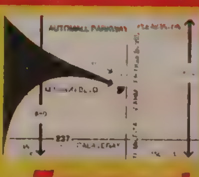
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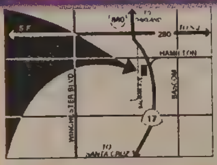

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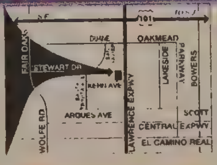

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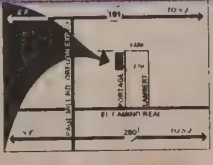

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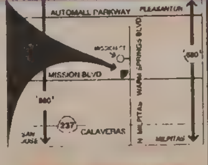

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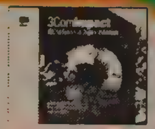

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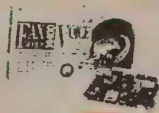

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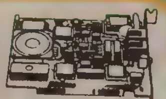


PRACTICAL PERIPHERALS 14,400 BAUD INTERNAL FAX/MODEM

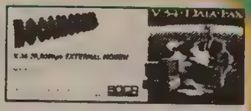
14,400 Baud Modem/Fax
Super High Speed V.32 BIS Protocol
Quick Link II communication Software
#1667912

$79.99

PRACTICAL PERIPHERALS 14,400 BAUD MINI TOWER FAX/MODEM EXTERNAL

V.32 and V.42 Bis
Quick Link II Communication Software
#1757781

$99.99



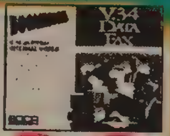
BOCAMODEM V.34 28,800 bps External Fax/Modem

New International Standard

- 28,800bps Data Modem
- 14,400bps Send/Receive Group 3 Fax
- V.42bis Data Compression for Troughput Up to 115,200bps
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

#1981878

$188



BOCAMODEM V.34 28,800 bps Internal Fax/Modem

New International Standard

- 28,800bps Data Modem
- 14,400bps Send/Receive Group 3 Fax
- V.42bis Data Compression for Throughput Up to 115,200bps
- High-Speed 16C550 UART Serial Card on board
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

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Telecoupler II

High Speed Modem Coupler

CONNECTS A PORTABLE COMPUTER TO ANY TELEPHONE EASILY.

- Accoustic coupling with telephone handset
- Industry standard telephone to modem connector RJ-11
- Full or Half Duplex Communication Mode

#1847790

CP+

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INTERNAL 2400 BPS MODEM 9600 SEND 4800 RECIEVE FAX

V.42 bis
Communication Software
#2087650

$12.99

DESKPORT 28.8 EXTERNAL MODEM

FULLY V.34 COMPLIANT

- Parallel Port Interface for true 28,800 bps throughput in Windows-Standard Serial
- 14,400 bps Group III Fax
- Compatible with 28,800 (V.34 and V.FC),14,400, 9600, 1200 and 300 bps modems
- APT- licensed with Windows 95® (Advanced Parallel Technology)

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Microcom

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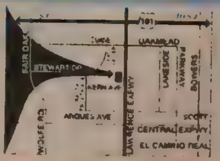

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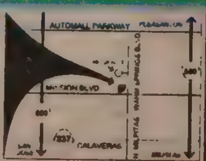

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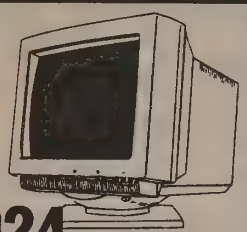


ViewSonic

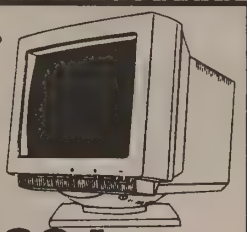
15G
15" CRT*
1280 X 1024
NON-INTERLACED
MONITOR

- .28mm Dot Pitch • Digital Control
- MPR-II

$425

*13.9" actual viewable area.

#46218



ViewSonic

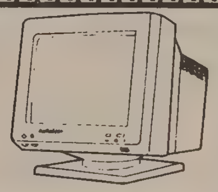
17EA
17" CRT*
1280 X 1024
MULTIMEDIA
MONITOR

- Plug N' Play • Digital Control
- .28mm Dot Pitch • Speakers

$739

*15.7" actual viewable area.

#46238



SAMPO TECHNOLOGY

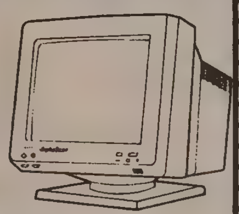
15" CRT*
SUPER
VGA 1280 X 1024
.28 MONITOR
NON-INTERLACED

- Digital Control

$379

*14" actual viewable area.

#2061348



EFA
15" CRT*
MULTIMEDIA
MONITOR

NEC Tube • 1280 x 1024 • Non-Interlaced
Built-in Speakers with Amplifier • Headphone Jack
#2004066

$395

*14" actual viewable area.

#2004066

MAGNAVOX

CM 4018
17" CRT* SVGA
1280 X 1024
NON-INTERLACED

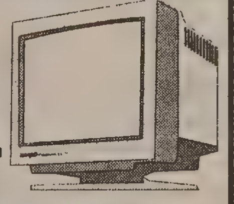
• 28 mm dot pitch • Digital control • 30-66 KHz

#2082828

$749

*15.7" actual viewable area.

#2082828



NANAO

17" SVGA
CRT* FLAT
SCREEN MONITOR
NON-INTERLACED

1280 x 1024 • Flat Screen • .28mm dot pitch
Non-Interlaced

$879

*15.7" actual viewable area.

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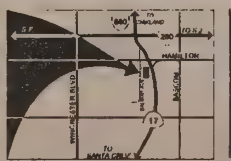
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280
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WINCHESTER BLVD
BASCOM
17
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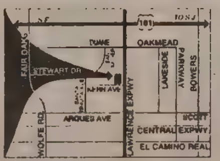
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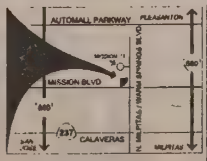
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237
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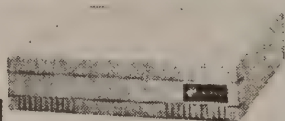

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MODEL 340
#1850659

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540MB

EXTERNAL HARD DRIVE FOR MACINTOSH®

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- Redline! Disk Utilities • Stackable
- Five Year Warranty

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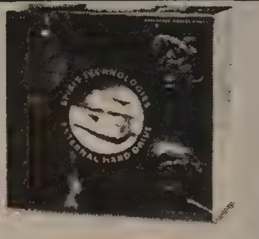

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840MB

EXTERNAL HARD DRIVE FOR MACINTOSH®

- External ZFP hard drive for Macintosh®
- 12ms Access
- 2 Year Warranty

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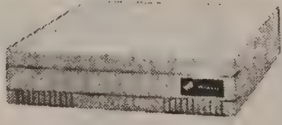
ST-ZFP-Q840
#2046989



1 GIGABYTE EXTERNAL HARD DRIVE FOR MACINTOSH®

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#1850682

2.0 GIGABYTE EXTERNAL HARD DRIVE FOR MACINTOSH®

Cables and software included.

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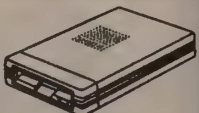

230MB MAGNETO-OPTICAL REWRITEABLE DISK DRIVE FOR MACINTOSH®

- 230MB total formatted capacity
- Average Seek Time: 30ms typ
- SCSI 2 Interface
- 50 pin DB centronics (input)
- One Inch Height

$479

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SPIRIT

270MB

EXTERNAL REMOVEABLE HARD DRIVE FOR MACINTOSH®

External, removeable Syquest hard drive with one 270MB Cartridge and cables

$499

#2008152

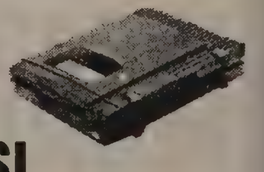
2.0 Gigabyte QIC External Tape Back-Up for Macintosh®

- Easy to set up and use
- Cables and software included

#2033444

$499

iomega



100MB SCSI ZIP DRIVE SOLUTION FOR MACINTOSH®

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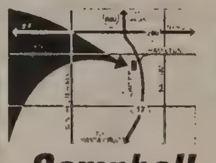

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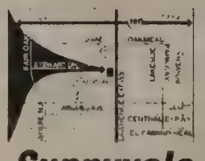

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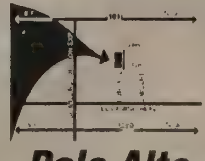

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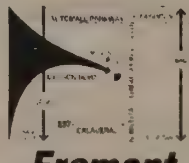

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- 10MSec Seek Time
- 512K Buffer
- 3.5" x 1" ht.
- 3 Year Warranty

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CAPELLA 2.2GB FAST SCSI-II HARD DRIVE

3.5" X 1" • 8.5ms Seek Time
5400RPM • 1MB Buffer
5 year warranty
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- 12ms Average Seek Time
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- 7200 RPM
- 5 Year Warranty
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12 msec Fast Seek Time • 512K Buffer
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FOR PC		FOR MAC	
3.5" X 1" #2061418	$90	3.5" X 1" #2061430	$95
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Includes: SCSI Case/Enclosure, SCSI Cable, Terminator, Formatting Software (MAC only), and Installation.

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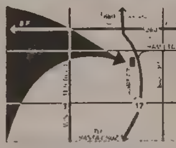

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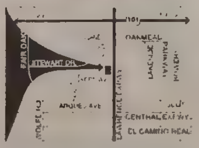

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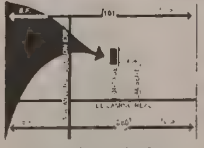

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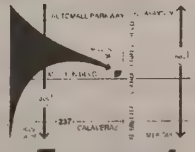

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170MB
HARD DISK CARD
PCMCIA 2.1 TYPE-III
- 12MSec Seek Time • 32K Buffer
- 4500 RPM • 2-Year Warranty

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540MB
2.5"
NOTEBOOK
ATA-2 HARD DRIVE
- 13ms Seek
- 128K Buffer
- 4200 RPM

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$379

ALL DRIVES AT GUARANTEED LOW PRICES!

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EUROPA
540MB
FAST ATA-2
2.5" NOTEBOOK
HARD DRIVE
- 14ms Average Seek Time
- 128K Buffer
- 3 Year Warranty

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Maxtor
541MB
IDE
HARD DRIVE
- 3.5" X 1"HT.
- <12msec Seek Time
- 64K Buffer
- 2 year warranty

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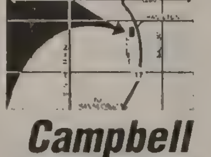

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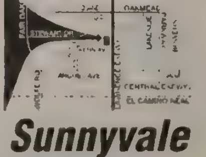

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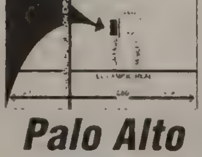

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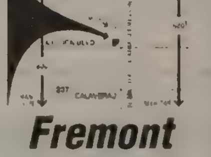

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- 64K Buffer
- 4500 RPM
- 3.5" X 1"

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- 14ms Average Seek Time
- 4500RPM • 128K Buffer
- 3.5" x 1" • Enhanced IDE

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- 256K Buffer
- 5400 RPM
- 3 Year Warranty
- Enhanced IDE

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1.2GB ENHANCED IDE HARD DRIVE

- 3.5" x 1" ht.
- 11ms Fast Seek Time
- 256K Buffer
- 3 Year Warranty

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$249

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1.62GB FAST ATA HARD DRIVE

Enhanced IDE
12ms Seek Time
128K Cache
4500 RPM
3.5" x 1"
#2054094

$268

CONNER

1.6GB ENHANCED IDE HARD DRIVE

- 14ms Seek Time
- 3 Year Warranty
- 64K Buffer • 3.5" x 1"

#92769

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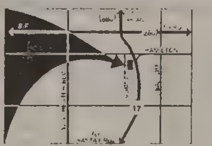
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280
17

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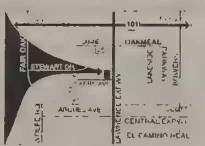
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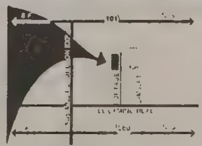

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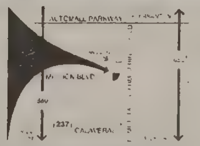
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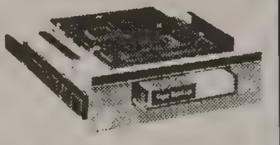

HP-T1000 800MB INTERNAL TAPE BACK-UP

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- Read/Write Compatibility with QIC 80/wide
- Travan Technology

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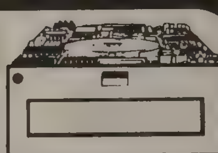
DITTO EASY 800 TRAVAN TECHNOLOGY 800MB INTERNAL TAPE BACK-UP



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- QIC-80/Wide Comp.
- Windows® 95, WIN/DOS

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- External for PC Parallel Port Plug
- Backward compatible with QIC-80 and QIC-80 wide
- Windows® 95, WIN/DOS

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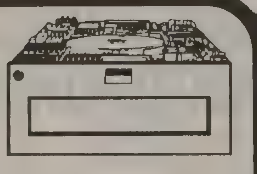

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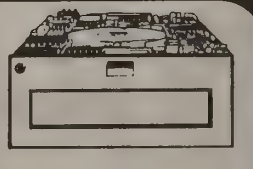

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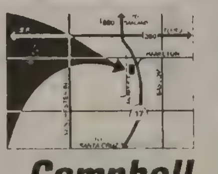

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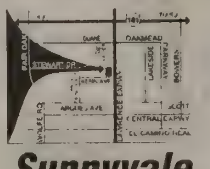

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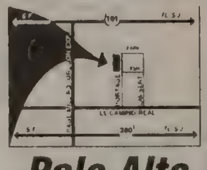

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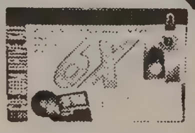

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Teac 6X Speed IDE Internal CD-ROM Drive
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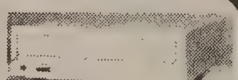

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- IDE Interface Card
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- QuickCD

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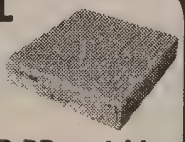

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- 650MB capacity
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- MPC2 Performance
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Universal monitor mounts save space and bring speakers to ear level.
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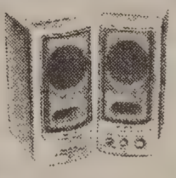

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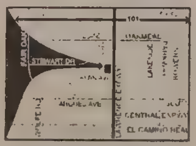

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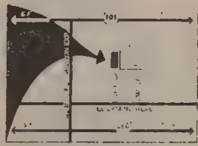

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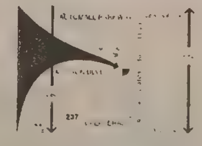

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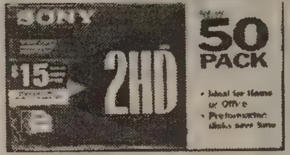

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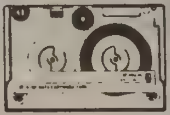

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- 1/4" Data Cartridge
- Works with Conner Tapestor 420
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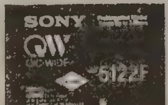

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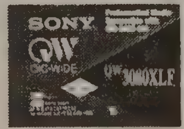

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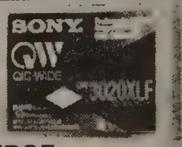

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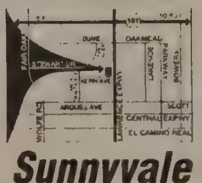

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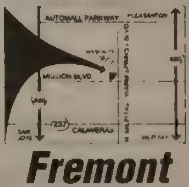

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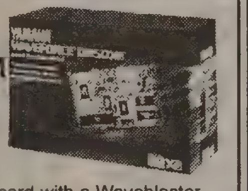

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- Plugs easily into any sound card with a Waveblaster expansion port
- Upgrades current sound card from FM to wave-table synthesis
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- Features state of the art digital signal processing which creates unprecedented realism

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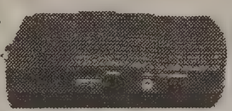

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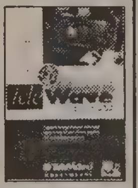

- DSP based wave table & FM synthesis combo sound board.
- 32 simultaneous stereo voice polyphony and General MIDI standard support with 128 instruments
- 2MB of CD-quality sampled instruments sounds store in ROM
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- Built-in CD-ROM interface supports Sony, Mitsumi, Panasonic and IDE.
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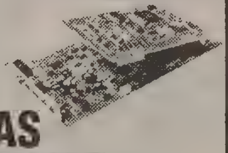

- Easy snap-on General MIDI and GS upgrade boards
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- Full General MIDI compatibility • Built-in reverb and chorus
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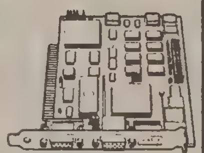

- Window '95 Plug and Play
- Soundblaster Compatible
- 32-Voice Hardware, Wavetable Synthesis
- Enhanced EIDE CD-ROM Controller
- 128 Wavetable instument in 2MB ROM

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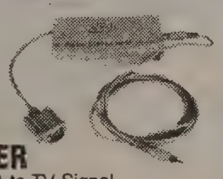

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- Play PC games on TV
- Ideal for business presentations on the go
- Flicker reduction circuitry
- S-VHS support

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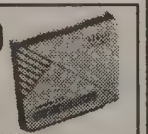

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- Dual display support cability (VGA monitor and TV/VCR simultaneously).

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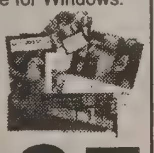
The video solution for real-time capturing, editing and playback of video. Includes Adobe Premiere for Windows.



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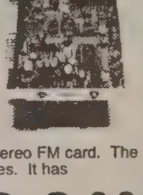

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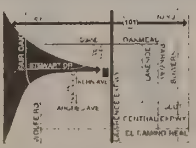

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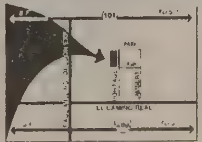

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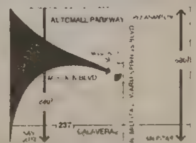

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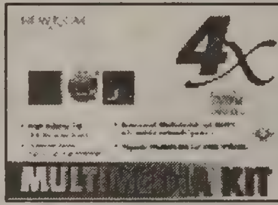

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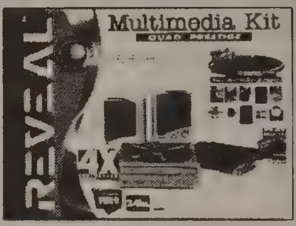

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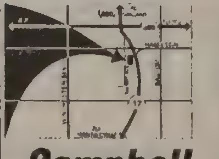

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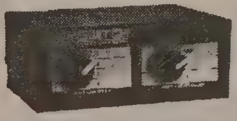

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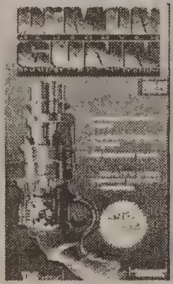

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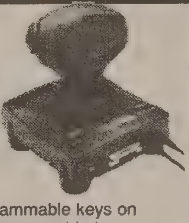

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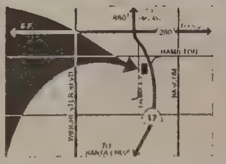

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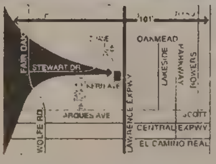

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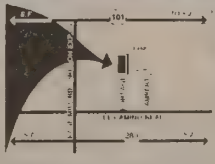

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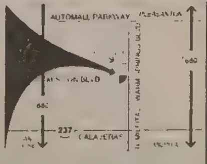

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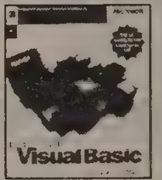

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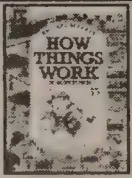

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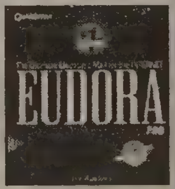

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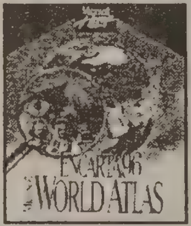

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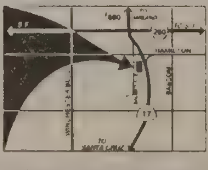

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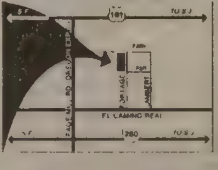

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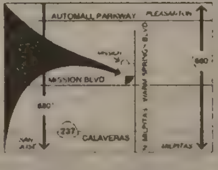

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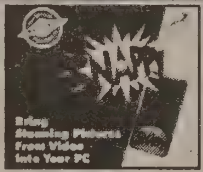
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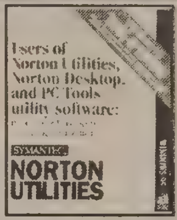
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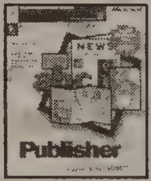

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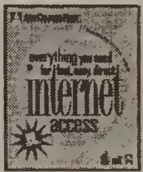
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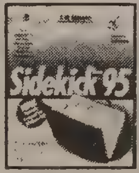
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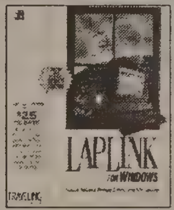
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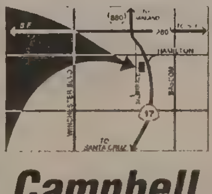
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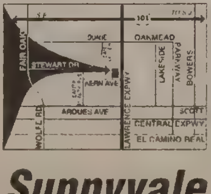
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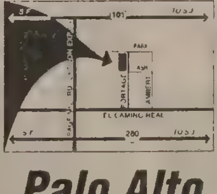
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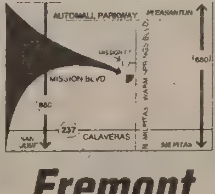
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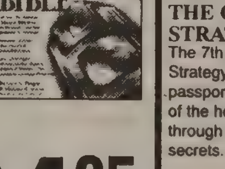

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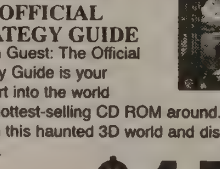

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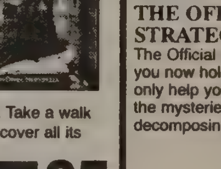

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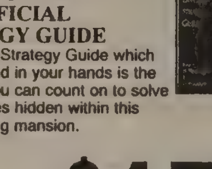

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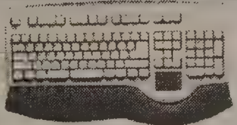

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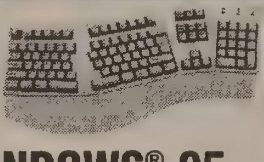

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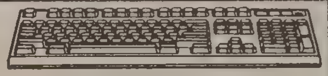

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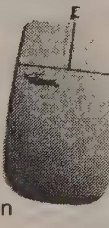

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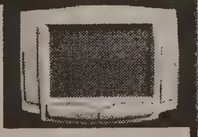

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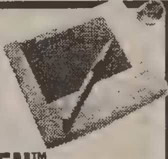

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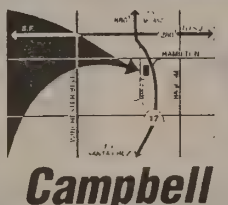

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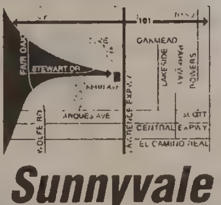

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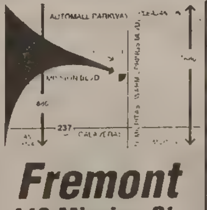

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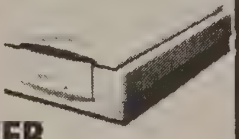

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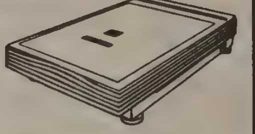

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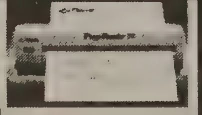

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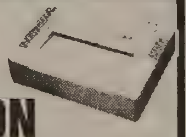

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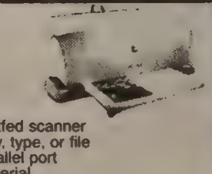

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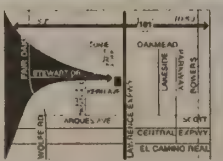

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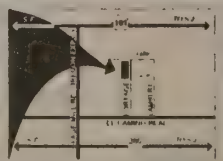

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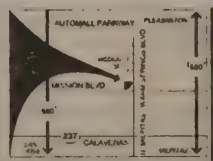

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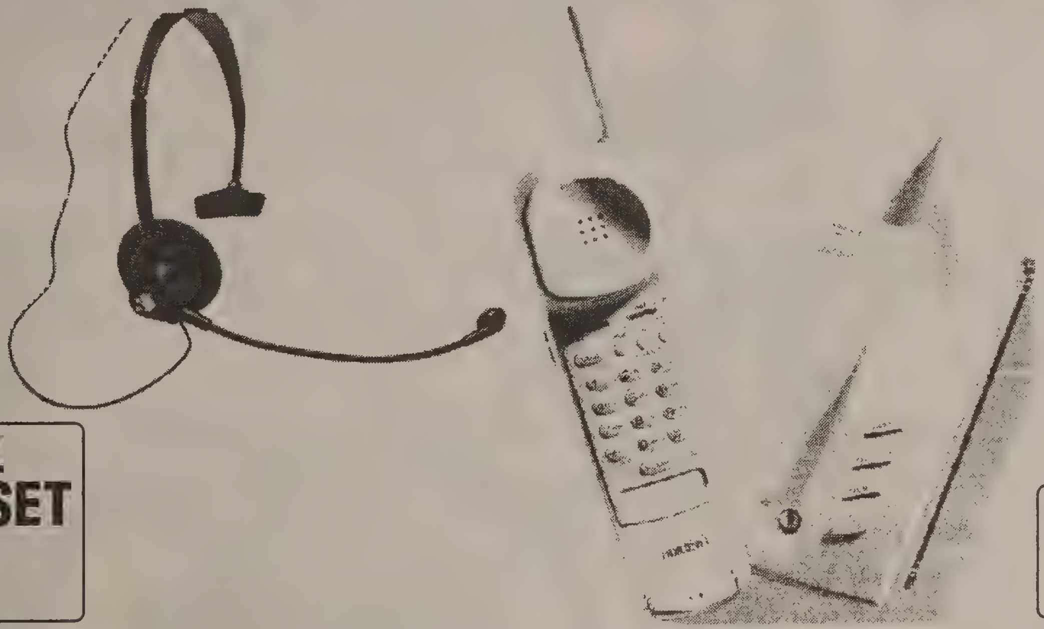

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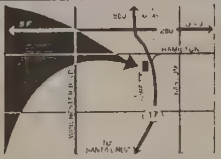

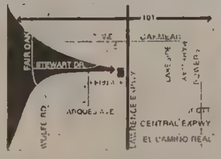

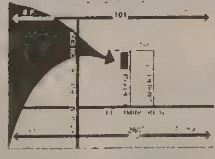

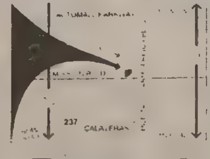

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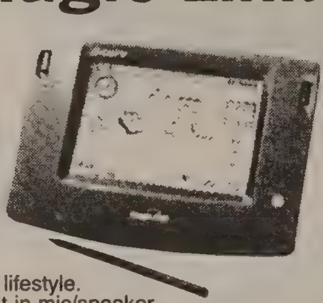

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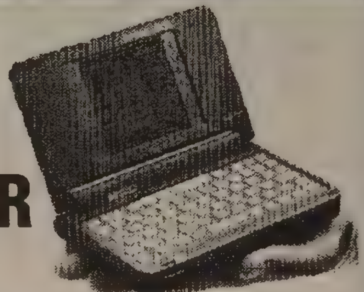


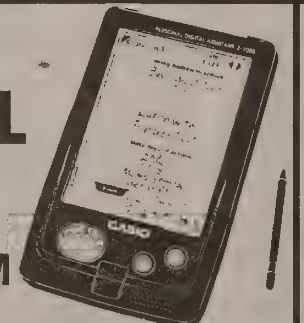
OmniGo 1MB ORGANIZER
WITH PEN AND KEYBOARD INPUT

With this HP 1MB Organizer you get the best of both worlds. As a pen based organizer you will have quick and easy access to the icon-based menu utilizing GEOs Pen-Os and graffiti handwriting recognition as well as digital ink. It's unique design includes a 360 degree rotatable hinge which allows the unit to be folded over for ease-of-use and you can configure the screen to either portrait or landscape mode! Other features include PCMCIA Type II slot, appointment book, phone book,notepad, data base, world time, calculator, spreadsheet, finance tools, and much more. An invaluable asset at only...

$349

Model OmniGo 100
#46158

CASIO



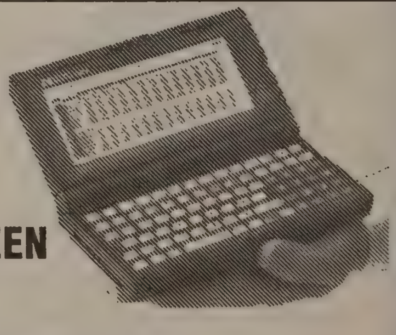
PERSONAL DIGITAL ASSISTANT
DOS COMPATIBLE WITH GEOS OPERATING SYSTEM

Now an amazing device, no bigger than a small paperback book, can store your hand written notes and sketches, arrange your calendar, keep track of hundreds of phone numbers and addresses, help organize your personal finances, perform complex mathematical calculations, give you easy access to electronic mail and a host of sophisticated on-line information services. With up to 100 hours of operation from 3AA Alkaline batteries, and S-RAM or Flash card compatibility, the versatility and performance of this PDA is unmatched at only...

$399

Model Z-7000
#1815308

HEWLETT PACKARD
Authorized Dealer



1MB PALMTOP COMPUTER
WITH 80x25 FULL SCREEN MS-DOS 5.0 & BUILT-IN POCKET QUICKEN

The smallest, lightest HP PC ever comes equipped with complete organizer software to manage your time, tasks and data, plus you can retrieve information instantly with a full range of built-in personal productivity tools. The pull-down menus and dialogue boxes make it simple to master the familiar commands, and the high-resolution display with zoom option is easy to read! With Lotus 1-2-3 built-in you will have full spreadsheet capability, including graphics and macros. Also includes CC:Mail built-in. Now only...

$498.99

Model HP-200LX 1MB
#1941670

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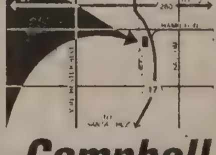

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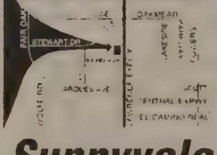

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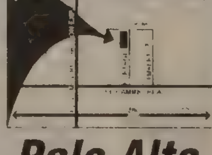
(408) 733-1770
(408) 735-6950



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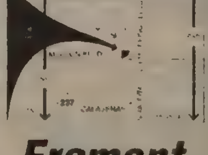
(415) 496-6044



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(510) 770-FRYS (3797)
(510) 770-9423

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OFFICE PHONES

Panasonic

SPEAKERPHONE

For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49^95

Model KX-T2315
#1530100

Panasonic

SPEAKERPHONE

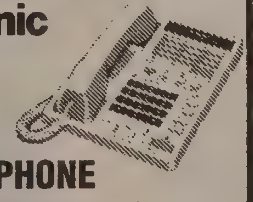
This outstanding value from Panasonic offers one-touch dialing for up to 28 16-digit telephone numbers, auto redial for up to 15 times, redial memory transfer, and a save button for temporary redial memory storage for only...

$59^95

Model KX-T2355
#1287186

Panasonic

TWO LINE SPEAKERPHONE



A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, separate ring switches for each line, and a local mode function. Now only...

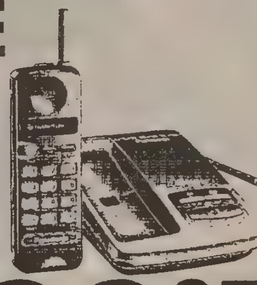
$69^95

Model KX-T3110
#1505313

900MHz EXTENDED RANGE CORDLESS PHONES

Panasonic

30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE



This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

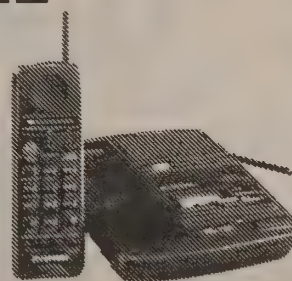
$199^95

MODEL KX-T9500
#1948839

Panasonic

900MHz PALM-SIZED CORDLESS PHONE

WITH ALL DIGITAL ANSWERING MACHINE



Panasonic's highly anticipated 900MHz cordless phone with all digital answering machine is finally here and it was well worth the wait! It's compact base and palm-sized handset make this the perfect addition to any home or office. Features include 10 number memory, 30 channel AutoScan, 3 personal mailboxes, 2-way/memo recording, intercom with 2-way paging, pager call, message scan (scans the first few seconds of each message), and much more. Now just...

$329

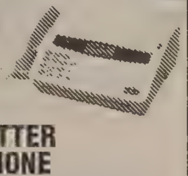
MODEL KX-T9550
#2068220

FAX MACHINES

Panasonic

FAX MACHINE

WITH PAPER CUTTER AND SPEAKERPHONE



Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale, super thermal paper compatible, paper curl reduction. 164' paper roll capacity. 15 page document feeder. distinctive ring. delayed transmission. paper save mode. telephone directory with alpha-search. 12 station one-touch with 28 station speed dialing. and much more. All for just...

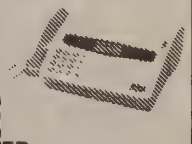
$279

Model KX-F550
#1944271

Panasonic

FAX MACHINE

WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE



Panasonic line of fully featured fax machines includes this compact model which with 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

$344^98

Model KX-F750
#1944282

Panasonic

PLAIN PAPER FAX

From the new line-up of Panasonic fax machines comes this fully-featured unit with 250 sheet paper capacity and adjustable letter/legal tray, a 15 page document feeder, 64 level halftones, reduction/enlargement copier functions, hands-free speakerphone, 60 number speed dialer, activity reporting, handset volume control, and a whole lot more! Now just...

$429

Model KX-F1000
#2068275

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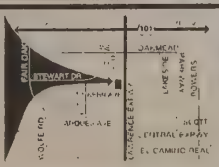

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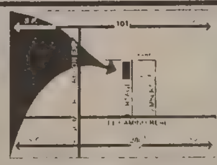

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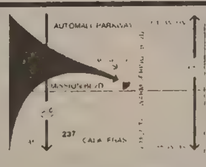

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SERVICE, SELECTION & SAVINGS

900 MHz EXTENDED RANGE CORDLESS PHONES

GENERAL ELECTRIC
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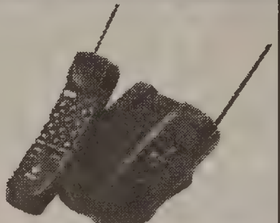
100 CHANNEL AUTO SCAN 900 MHz CORDLESS PHONE



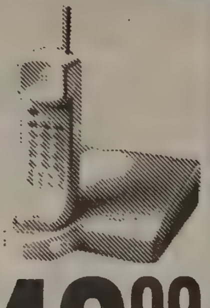
By combining 100 channel auto scan (which allows the phone to lock-on-to the channel that is getting the clearest signal) and 900 MHz crystal clear technology (for improved clarity and extended range), GE has developed the ultimate cordless phone! Other features include 10 number memory, page/find from base to handset, handset volume control, distinctive ring, and more. An excellent value at....

$149.99

MODEL 2-9910 #1923425

uniden

40 CHANNEL 900MHz CORDLESS PHONE



Uniden's latest 900MHz cordless phone gives you unparalleled range and performance along with premium features that include 40 channel selection, call monitor, 2-way/hands-free intercom, 10 number memory, mute, last number redial, flash, and much more, all for just....

$148.99

MODEL EXP-901
#1965005

SONY.

40 CHANNEL 900 MHz CORDLESS SPEAKERPHONE

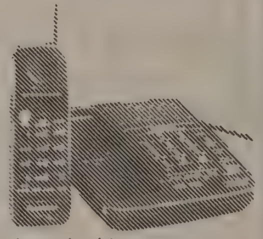
By combining 900MHz Enhanced Reception with a 40 Channel Auto Scan system, Sony has designed a cordless phone that not only provides clearer transmission with less noise and interference than conventional 46 to 49 MHz cordless phones, but also gives you enhanced channel selection resulting in greater flexibility if you encounter interference during a call. With 2-Way Paging/Intercom, Base Speakerphone, 3-Way Conversation, 20 number memory, last number redial, flash, and more. Sony has designed the perfect cordless phone for the home or office at only...

$189.99

MODEL SPP-ER1
#1839009

Panasonic

900MHz CORDLESS DUAL KEYPAD SPEAKERPHONE



This palm-sized 900MHz cordless phone comes equipped with dual keypad speakerphone for handsfree operation, 30 channel autoscan, intercom with 2-way paging, 20 number memory, a dual battery charging system, flash, hold, and last number redial. An excellent addition to any home or office at..

$249.95

MODEL KX-T9520
#2068219

AT&T

DIGITAL 900MHz DUAL KEYPAD CORDLESS SPEAKERPHONE

AT&T, the leader in digital telephone technology once again leads the way into the future with the introduction of this 900MHz cordless phone. By operating at the 900 MHz frequency range rather than the conventional 46 to 49 MHz range, this AT&T cordless phone will provide clearer transmission with less noise and interference from other electronic devices, as well as extended range performance! Features include 10 number memory, mute, hold, flash, last number redial, one-way paging, out-of-range-indicator, digital voice encryption, and much more for only...

$229.97

MODEL 9120 #1853261

VTECH

DIGITAL 900MHz CORDLESS PHONE

WITH 30 MINUTE ALL DIGITAL ANSWERING MACHINE

If you want premium performance in a cordless phone look no further than this digital 900MHz Cordless phone with 30 minute digital recording capability and 4 programmable voice mailboxes! Beside the extended range and improved clarity over traditional 49Mhz cordless phones, this model also offers handset volume control,10 number memory, low battery and out-of -range indicator, one-way paging, programmable ring, mute, flash, as well as, message skip and repeat (for immediate access to the next or previous message without having to wait for a tape to rewind or fast forward), and a whole lot more! An excellent value at...

$299

MODEL 900i #2072021

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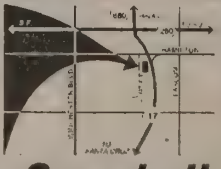

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STEWART DR
CENTRAL EXPWY
EL CAMINO REAL

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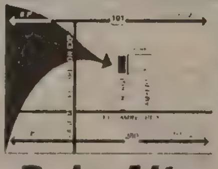

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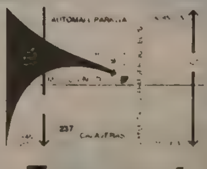

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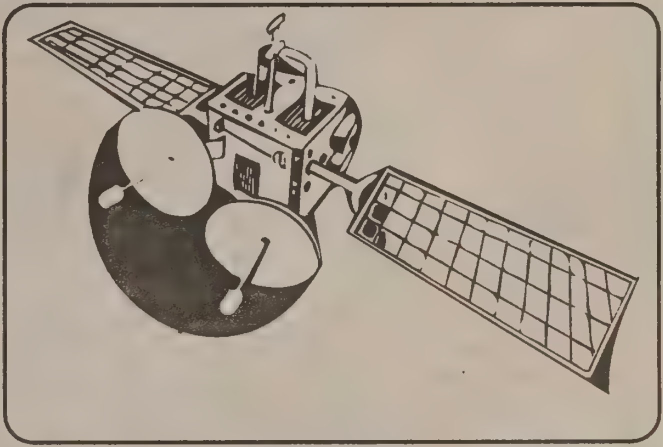
- **CD QUALITY DIGITAL AUDIO**
- **OVER 175 CHANNELS OF ENTERTAINMENT**



DSS™
DIGITAL SATELLITE SYSTEM

DIRECTV

JUST A SAMPLE OF WHAT'S AVAILABLE!

Discovery ESPN C-SPAN CARTOON NETWORK Bloomberg TRIO
TNT TNN CNN International CNBC
The Disney Channel COURT
USA Network CNN E! Touchstone Pictures
Travel A&E TBS MIRAMAX UNIVERSAL
CMT Columbia Pictures Tristar Pictures C-SPAN2 Walt Disney Pictures

USSB

USSB OFFERS

5 HBO CHANNELS
3 SHOWTIME CHANNELS
2 "THE MOVIE" CHANNELS
3 CINEMAX CHANNELS
AND MORE

Multi-Channel HBO MTV Music Television SHOWTIME SHOWTIME 2 VH1
The Movie Channel Multi-Channel Cinemax Comedy Central
Nickelodeon ALL NEWS LIFETIME FLIX NICK AT NITE

RCA

DIGITAL SATELLITE SYSTEM (DSS) DISH AND RECEIVER

Enjoy over 175 channels of top-notch entertainment with the crystal, digital clarity of the new RCA DSS system. CD quality sound and over 400 lines of video resolution, provide an incredible entertainment experience. Let Fry's and RCA help you drive on the Information Superhighway!!!
*System price does not include monthly programming fees starting a $29.95 plus additional charges for pay-per-view movies and events.

MODEL DS-1120WR
#1942578

$598

SONY.

DIGITAL SATELLITE SYSTEM (DDS) DISH AND RECEIVER

Sony's new DSS system is compatible with more than 175 channels of DirecTV and USSB programming. CD quality sound and over 400 lines of digital video resolution work together to give an outstanding home theatre experience. **Other features include Sony's signalseeker LED** for easy install and a universal remote.*System price does not include monthly programming fees starting a $29.95 plus additional charges for pay-per-view movies and events.

MODEL SAS-BS1
#2026112

Limit One per Customer!

$647

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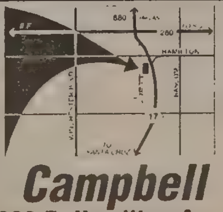

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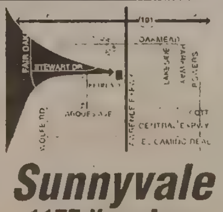

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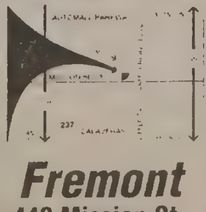

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Insights *continued from page 18...*

MicroTimes Stock Index Advances To A New High

EXCH	COMPANY		TICKER SYMBOL	CLOSING PRICE 10/24/95	CLOSING PRICE 12/13/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL IVIDEN RATE	ANNUAL IVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE											
OTC	Adobe	(H)	ADBE	54.75	72.00	17.25	31.51	103	0.20	0.28	74.25	27.25
OTC	Autodesk		ACAD	33.75	38.50	4.75	14.07	25	0.24	0.62	53.00	31.25
OTC	Borland	(H)	BORL	14.38	18.38	4.00	27.83	-	0.00	0.00	20.63	6.00
OTC	Informix		IFMX	29.63	28.88	-0.75	-2.53	44	0.00	0.00	34.38	12.75
OTC	Microsoft		MSFT	97.50	91.75	-5.75	-5.90	35	0.00	0.00	109.25	58.25
OTC	Novell	(L)	NOVL	14.25	15.25	1.00	7.02	19	0.00	0.00	23.25	13.75
OTC	Oracle	(H)	ORCL	43.50	43.25	-0.25	-0.57	44	0.00	0.00	48.75	25.50
OTC	Software Publishing		SPCO	3.69	3.63	-0.06	-1.69	-	0.00	0.00	5.63	2.88
OTC	Symantec		SYMC	29.38	26.13	-3.25	-11.06	23	0.00	0.00	33.25	15.50
	HARDWARE											
OTC	Apple		AAPL	35.13	38.38	3.25	9.25	11	0.48	1.25	50.13	33.63
OTC	AST Research		ASTA	9.75	8.88	-0.88	-8.97	-	0.00	0.00	19.13	7.50
NYS	Compaq	(H)	CPQ	54.63	47.63	-7.00	-12.81	14	0.00	0.00	56.75	31.13
NYS	Digital Equipment	(H)	DEC	53.50	63.38	9.88	18.46	34	0.00	0.00	65.00	31.13
OTC	Dell	(H)	DELL	45.81	36.00	-9.81	-21.42	13	0.00	0.00	49.38	18.38
NYS	Hewlett-Packard	(H)	HWP	91.25	80.75	-10.50	-11.51	17	0.80	0.99	96.63	46.88
NYS	IBM		IBM	98.00	94.50	-3.50	-3.57	15	1.00	1.06	114.63	69.38
NYS	Silicon Graphics		SGI	33.88	35.00	1.13	3.32	26	0.00	0.00	45.63	27.50
OTC	Sun Microsystems	(H)	SUNW	36.94	48.88	11.94	32.32	24	0.00	0.00	51.50	15.00
NYS	Xerox	(H)	XRX	134.50	136.00	1.50	1.12	17	3.00	2.21	144.63	90.63
NYS	Tandy		TAN	51.88	42.00	-9.88	-19.04	14	0.72	1.71	64.38	42.00
	CPU'S											
NYS	Advanced Micro Devices	(L)	AMD	26.25	18.13	-8.13	-30.95	7	0.00	0.00	39.25	18.13
OTC	Intel		INTC	68.00	62.63	-5.38	-7.90	18	0.16	0.26	78.38	28.75
NYS	LSI Logic		LSI	46.13	36.19	-9.94	-21.54	22	0.00	0.00	62.50	18.25
NYS	Motorola		MOT	65.50	59.88	-5.63	-8.59	19	0.40	0.67	82.50	51.50
	COMMUNICATIONS											
NYS	AT&T	(H)	T	61.13	68.13	7.00	11.45	26	1.32	1.94	68.13	47.63
NYS	BellSouth Corp.	(H)	BLS	38.25	42.00	3.75	9.80	19	1.44	3.43	42.00	26.38
OTC	MCI	(H)	MCIC	24.63	26.50	1.88	7.61	45	0.05	0.19	27.38	17.25
NYS	Northern Telecom	(H)	NT	33.50	43.63	10.13	30.22	25	0.44	1.01	43.63	31.50
NYS	Pacific Telesis	(H)	PAC	29.75	34.25	4.50	15.13	14	2.18	6.36	34.25	25.63

Note: Dell, Sun Microsystems, and BellSouth Corp. completed 2-for-1 splits.

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	14
DECLINES	15
UNCHANGED	0
NEW HIGHS	14
NEW LOWS	2

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	Adobe	$	17.25
LARGEST DOLLAR LOSER	Hewlett-Packard	$	-10 50
LARGEST PERCENTAGE GAINER	Sun Microsystems		32.32 %
LARGEST PERCENTAGE LOSER	Advanced Micro Devices		-30.95 %

	CLOSE 10/24/95	CLOSE 12/13/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	7807.96	7945.37	137.41	1.76
DOW JONES INDUSTRIAL AVERAGE	4783.66	5216.47	432.81	9.05
STANDARD & POOR'S 500 INDEX	586.56	621.69	35.13	5.99
N.Y.S.E. COMPOSITE	312.90	331.17	18.27	5.84
NASDAQ COMPOSITE	1039.24	1056.54	17.30	1.66

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
05/10/95	6571.21	4404.62
06/07/95	6982.06	4462.03
07/05/95	7437.77	4615.23
08/02/95	7501.51	4665.85
08/30/95	7787.50	4604.57
09/27/95	7831.95	4762.35
10/24/95	7807.96	4783.66
12/13/95	7945.37	5216.47

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Technology stocks rebounded for the two-month trading period ended December 13. Specifically, the MicroTimes Stock Index climbed 137.41 points, or 1.76%, before coming to rest at 7945.37. In comparison, the red-hot Dow Jones Industrial Average gained 432.81 points, or 9.05%, to reach an all-time high of 5216.47, and the S&P 500 Index rallied to an all-time high of 621.69, after rising 35.13 points, or 5.99%. When results were tallied, declining issues in the MicroTimes Index narrowly edged out advancing issues by a 15-to-14 count, and there were fourteen new 52-week highs versus two new 52-week lows.

Turning to the stocks in the MicroTimes Index:

Sun Microsystems Inc. recently signed several deals, involving IBM Corp., Netscape Communications Corp., Oracle Corp., and Mitsubishi Electronics America Inc., to license its Java programming language for the World Wide Web. Sun's Java software is quickly becoming the Windows-like vehicle of the Internet. Sun Microsystems Inc. represented the largest percentage gainer in the MT Index as it rose 11.94 points, or 32.32%, to close at $48.88. The stock split 2-for-1 on December 11.

In a related story, Adobe Systems Inc. signed a deal with Sun Microsystems Inc. to license Java and integrate Java support into future versions of its PageMill Web authoring software and Adobe Acrobat electronic document software. The deals with Sun are widely viewed in the computer industry as an attempt to keep Microsoft Corp. from controlling Internet markets in the same way it does the desktop market with its Windows operating system. Shares for Adobe Systems Inc. jumped 17.25 points, or 31.51%, to $72.00, making it the largest dollar gainer in the MT Index.

Digital Equipment and Microsoft signed an agreement that includes cross-licensed products and technologies. Digital will provide the integration between Microsoft's forthcoming Exchange messaging system and Digital's own All-In-1 and MailWorks email systems. For the period, shares for Digital Equipment rose 9.88 points, or 18.46%, to $63.38, while Microsoft bucked the trend, finishing down 5.75 points, or 5.90%, at $91.75.

Northern Telecom Ltd. said it is near a final agreement with NYNEX Corp. for the distribution and installation of Integrated Services Digital Network (ISDN) hardware and software in a deal worth over $150 million over five years. Northern Telecom Ltd. rose 10.13 points, or 30.22%, to close at $43.63. ■

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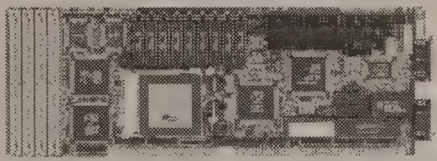
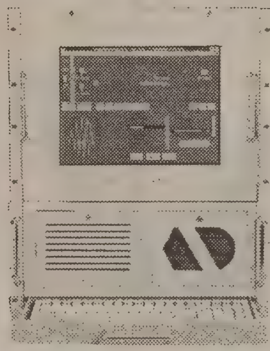


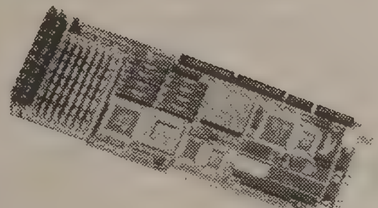
PEAK-510/510S PCI/ISA PENTIUM® SBC

- Full-length Pentium® 75-133 CPU Card, Award BIOS
- 4X72 PIN SIMM sockets (256MB Exp max) EDO supported
- 256K Cache, Burst SRAM supported SIS Chipset
- Built-in Adaptec 7870 PCI wide-SCSI (510S only)
- Built-in PCI IDE, FDD, High Speed I/O (2S, 1P)
- Onboard generated 300-500ms power good signal
- Watchdog timer 0.5sec to 64sec. Timeout interval
- ISA-MAX feature with BP-140M Dual Backplane
- Dimensions 338 x 122 mm, 600g



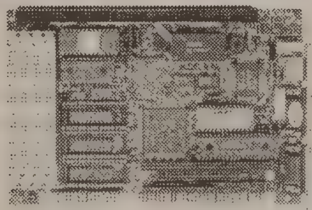
19" RACKMOUNT SYSTEMS

- RPC-204 19" Industrial PC Case, 20 Slots (Dividable) Passive Backplane, 300W PS Three Fans Six 3.5" Drive Bays, 19"x24"x7"
- RPC-201 19" Chassis, 14 Slots passive backplane, two fans, 3x3.5", 1x5.25" bays, 19"x17"x7"
- KB201 19" RackMount K/B Drawer with K/B
- PIK-220 19" RackMount Monitor Enclosure, Holds 12" to 14" Monitor



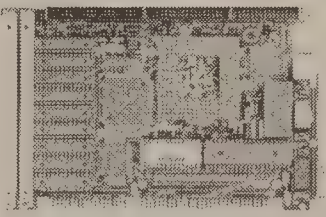
AX8045 486 AIO SBC VLB VGA

- Full Length 80486SX/DX/DX2 CPU
- 2x72 Pin, 8x32 Pin SIMM (1-64 MB)
- AMI BIOS, 256K Cache
- Supports PC/104 Expansion Bus
- Watchdog timer 0.5-250 sec.
- Onboard Keyboard & Ext Power
- Dimensions 338x122mm



AP-410A 486 ALL-IN-ONE SBC

- Half Sized 80486SX/DX/DX2/DX4
- 2x72 Pin, 8x32 Pin SIMM (1-64 MB)
- AMI BIOS, 256K Cache
- Built-in 2xIDE, FDC, 2S & 1P
- Watchdog timer 0.5-5 sec.
- Onboard Keyboard & Ext Power
- Dimensions 185x122mm



AP-300A AIO 386 SX SBC

- Half Sized 80386 SX-40
- 4x30 Pin, 512K-16MB
- AMI BIOS, 0K Cache
- IDE FDC, 2S/1P, PC/104 Bus
- Socket for 1.44MB Flash/EPROM
- Watchdog timer 0.5-5 sec.
- Onboard Keyboard & Ext Power
- Dimensions 185x122mm

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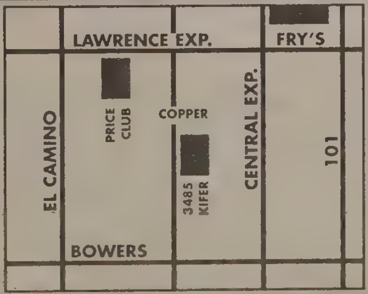

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Online Guide

Web Page Listings

continued from page 110

Agriculture *http://www.agen.ufl.edu/~fzazueta/* Conference, in Cancun, Mexico, June 11-14, 1996, will provide a forum for agriculture related professionals to exchange information on applications and developments in the use of computers in agriculture. [Exp. #146.]

Alternative Family Project *http://www.sfsu.edu/~counsel/* Provides affordable family therapy to San Francisco Bay Area families with gay, lesbian, bisexual, or transgendered members. [Exp. #147.]

Books

American Association of University Presses *http://aaup.pupress.princeton.edu:70/* Offers online catalogue of over forty nine thousand scholarly books in print at university presses. [Exp. #146.]

Com

American Civil War Association *http://199.88.68.204/acwa* Civil War reenacting organization in California. Battles, living history and display of life during the 1860's. [Exp. #148.]

Association For The Electrically and VDT Injured *http://www.isy.liu.se/~tegen/febost.html* Information for persons who suffer from environmental illness related to exposure to electronagnetic fields. [Exp. #146.]

Com

Asteroids *http://www.anomalies.com/* Asteroid PRO software predicts asteroid occultations. This site also hosts the IOTA asteroid occultation information pages. [Exp. #148.]

Com

Bad Information Base *http://www.well.com/user/jmalloy/* Information catalogued, and organized in a definitive database that contains words of wisdom about subjects such as religion, technology, body order, computers, and toilet paper. [Exp. #146.]

Bay Area Gurdjieff Work Circles *http://users.lanminds.com/~tgr/* Groups that study the Fourth Way teachings of Gurdjieff/Ouspensky. Meeting dates/times listed. [Exp. #148.]

H/W/Ent

Bodywise *http://www.bwise.com/bodywise* Bodywise provides insightful news, facts, and data to bodybuilders and fitness enthusiasts. [Exp. #148.]

Ent

Burlingame On-Line *http://www.spectrumnet.com/burlingame.html* Burlingame On-Line provides news, information, and shopping for the city of Burlingame and surrounding communities. [Exp. #146.]

Ent

Burlingame On-Line PEZ Page *http://www.spectrunmet.com/paz/* Largest display of PEZ dispensers on the West Coast, includes history, facts, and PEZ store. [Exp. #146.]

Capnet Gateway On-Line Service *http://turnpike.net/emporuim/C/CAPNET/health.htm* An Internet resource center for information regarding Healthcare and Humanity. [Exp. #146.]

Catholic Charities Web Pages *http://ccsj.org/* Enhancing the quality of life for all members of the community, especially the poor. [Exp. #146.]

H/W

Center For Communication Programs (CCP) *http://www.charm.net/~ccp/* Project of Johns Hopkins University School of Public Health. Publisher of *Population Reports* and producer of POPLINE bibliographic database. [Exp. #148.]

Central News Service *http://users.aol.com/cns1111/2.html* News from the underground. Analysis of news to help distinguish self-interest of institutions from actual current events. Non-profit community orientation. [Exp. #147.]

Com

Chabot Observatory and Science Center *http://ousd.k12.ca.us/COSC/Chabot.html* Located at 4917 Mountain Blvd. in Oakland near Hwy. 583/13 interchange. [Exp. #146.]

Child Safety Forum *http://www.xmission.com/~gastown/safe* Provides safety information that may save your child's life or prevent a serious injury. Each month features child safety tips for a different room of the house. [Exp. #146.]

Children's Animated Television *http://www1.usa1.com/~furball/* A progressive non-profit organization that produces educational videos for children and teens about today's social issues. [Exp. #147.]

Travel

Chile Guide *http://sunsite.dcc.uchile.cl/~mvasquez/chile/index.html* Chile Guide is a page where you can find all about Chile. [Exp. #146.]

Travel

Chinese Big-5 *http://exo.com/~datung* Many useful and interesting Chinese WWW links. Also, Chinese Web page consultant . [Exp. #148.]

Church Of Scientology Of Los Angeles *http://www.theta.com/csla/* History of the Los Angeles Church, celebrity comments, photos, what is Scientology?, community, and more. [Exp. #147.]

Cichlid Research Home Page *http://garnet.berkeley.edu:2727/* Information on the fish family Chichlidae, for both hobbyists and scientists. [Exp. #146.]

Ent

Cigar World *http://Cigarworld.com/* Entertaining commentary, casual exchanges and cigar news—an online complement to a good smoke. [Exp. #148.]

City Of Los Angeles *http://www.ci.la.ca.us/* Information for residents of the city of Los Angeles. Public Works, Street Lighting, and the Dept. of Building and Safety, as well as other departments. [Exp. #148.]

City of San Carlos *http://www.abag.ca.gov/san_carlos/index.html* "Meet the Candidates" feature provides an easy way to read the statements of the five candidates running for the two vacant City Council positions in the City's General Election to be held November 7, 1995. [Exp. #146.]

Com

Classic/Vintage Thunderbirds *http://www.hooked.net/users/gwotel/index.html* Classic (1955-1957) and Vintage (1958-1966) Ford Thunderbird Web site. [Exp. #147.]

Croatian Mother's Web Site *http://www.unm.edu/~vuksan/mario/appeal.html* [Exp. #148.]

Cuba WWW *http://www.unipr.it/~davide/cuba/home.html* Country information, maps, WWW sites, Gopher sites, mail, news, tourism, and more. [Exp. #146.]

Travel

CyberKorea *http://165.113.175.2* Korean Web directory and information, short Korean lessons, shopping center, ads, and announcements. [Exp. #148.]

Democratic Party of the San Fernando Valley *http://val.net/dpsfv/* The Democratic Part of the San Fernando Valley goes electronic. Events, issues, info, and more. [Exp. #146.]

DharmaNet Electronic Files Archive *http://sunsite.unc.edu/dharma.defa.html* Online clearinghouse and library for Buddhist resources, online and off. [Exp. #147.]

Earthquake Information From USGS, Menlo Park *http://quake.wr.usgs.gov/* Current quake data, regional studies, info on prediction experiments, projected shaking, and damage maps. [Exp. #147.]

Electric Mercado *http://www.mercado.com/* A bilingual online cultural center and marketplace showcasing Latino lifestyles. This site is modeled after the traditional Latin American mercados with all their richness and color. [Exp. #148.]

Favela! *http://www.favela.org* Favela! is a modern agora—an interactive learning tool, a means of dissemination of censured information, a spectacle for the eye working with the mind. [Exp. #148.]

Guerrilla Girls Headquarters *http://www.voyager-co.com/gg* This site serves as both an archive of their past attacks and a homebase for new criticisms of the art establishment and the emerging realm of interactive media and communication. [Exp. #148.]

Ent

Henry Ford Museum Online *http://hfm.umd.umich.edu* Provides users with historical content and programs. Highlights inlcude "The Automobile in American Life," "Made in America," and Presidential limo exhibits. [Exp. #146.]

Holistic Dimension *http://www.deltanet.com/users/angelh/INDEX01.htm* A new online magazine that provides an unbiased, uncensored view of today's affairs. [Exp. #148.]

Hungarian Milecentennary Celebration *http://exo.com/~fredh/honf.htm* 1,100 years of statehood and celebration of the times, history, culture, and anthropology of Hungary. Also links to tourist information and related programs. [Exp. #148.]

H/W/Ent

Ischemia Research And Education Foundation *http://grimm.ucsf.edu/* The IREF and McSPI web site describes the cutting-edge heart research done by this world-wide network of prestigious study centers. [Exp. #146.]

Islamic Server of MSA-USC *http://www.usc.edu/dept/MSA/* Contains information on Islam, including several large reference works. [Exp. #146.]

Music

Jerry Garcia Tribute Site *http://www.rockweb.com/rwi/jerry-tribute* Sign condolence card project, video, sound, pix, chat. Collaboration between RockWeb David Grisman, Stanley Mouse, and Steve Brown. [Exp. #146.]

!jimbo.Land! *http://dnai.com/jimboland/* Center for lesbian and gay culture and community. [Exp. #148.]

Los Angeles County Museum of Art *http://www.lacma.org* Largest museum west of the Mississippi is online. Come and see the art. [Exp. #146.]

MAD VIRTUAL SERVER *http://www.simona.com/* A free space for independent artists an crazy fellows of any kind. [Exp. #148.]

Art

Mansoor Amarna Collection *http://www.amarna.com/* A collection of Egyptian Amarna era art, pieces of which may be found in the Louvre, the Vatican, and other museums. [Exp. #146.]

Pers. Growth

MetaSelf *http://www.metaself.org/model* Understanding the whole self through a model based on common spatial metaphors. High school lesson plans. [Exp. #146.]

Com

Miracle Mile Coin *http://www.masterm.com/mmcoin.html* Information on rare coins and Numismatic happenings. [Exp. #148.]

Ent

Moss Beach, California *http://www.coastside.net/USERS/gladman/moss-beach.html* Things to see and do along the San Mateo county coastside. [Exp. #148.]

Mr. Rabin Memorial Book *http://www.netking.com/* [Exp. #148.]

NAAFA Online *http://world.std.com/~naafa* National Association to Advance Fat-Acceptance. Promoting wellness and combatting prejudice against fat people. [Exp. #146.]

NASA Office of Space Science *http://www.hq.nasa.gov/office/oss* The NASA Headquarters Office of Space Sciences provides information and links to Space Science sites. [Exp. #146.]

Old Strubridge Village *http://www.osv.org/* Catch a Glimpse of 19th-Century Life With 20th-Century Technology [Exp. #148.]

Ent

Old Town Pasadena *http://www.earthlink.cet/~jescala/oldtown.htm* A comprehensive guide to the night life of Old Town Pasadena, with reviews of bars, pool hall, and clubs. [Exp. #146.]

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- 14" Super VGA, NI, 0.28 Monitor
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- Mini-Tower Case w/250W Power Supply
- Microsoft Compatible Mouse

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- 486DX4/100 Motherboard with 256K Cache
- 8MB of RAM
- 1.44MB Floppy Drive
- 850MB Wester Digital IDE Hard Drive
- 1MB VLB/PCI SVGA Video Card
- 14" Super VGA, NI, 0.28 Monitor
- IDE /I/O Card
- 101 Enhanced Keyboard
- Microsoft Compatible Mouse
- Medium-Tower Case w/250W Power Supply
- Quad-Speed CD-ROM
- Media Magic 16-Bit Sound Card
- Pair of Speakers
- Package of Windows 95 /DOS 6.22 & Windows 3.11

COMPLETE SYSTEM

**Other Configurations Available*

VLB $1299 PCI $1319

PENTIUM 90/100 SYSTEM

- Intel Zappa Motherboard w/256K Cache, EIDE/ I/0, Triton Chipset
- Intel Pentium 90/100 CPUwith fan
- 8MB of RAM
- 1.44MB Floppy Drive
- Western Digital 1.2GB IDE Hard Drive
- Diamond Stealth 64, PCI, 2Mb Video Card
- 15" Super VGA, NI, 0.28 Monitor
- 101 Enhanced Keyboard
- Microsoft Mouse
- Mid-Tower Case w/250W Power Supply
- Package of Windows 95/DOS 6.22 & Windows 3.11

COMPLETE SYSTEM

intel inside

**Other Configurations Available*

90MHz $1689 100MHZ $1749

PENTIUM 100/133 MULTIMEDIA SYSTEM

- Intel Endeavor Motherboard w/256K Pipline Burst Cache EIDE/ I/O, and Soundblaster 16 on board
- Intel Pentium 100/133 CPU w/fan
- 16MB of RAM
- Teac 1.44 F/D
- Western Digital 1.6GB IDE Hard Drive
- Diamond Stealth 64, PCI, 2MB Video Card
- Optiquest 15", 0.27, NI SVGA Monitor
- Maxiswitch 101 Keyboard & Microsoft Mouse
- Toshiba Quad-Speed CD-ROM
- Pair of Speakers
- Mid-Tower Case w/250W Power Supply
- Microsoft Mouse
- Package of Windows '95 / DOS 6.22 & Windows 3.11

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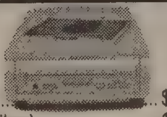
MOTHERBOARDS

ISA	
486DX2/DX-4 VLB (4X30-pin & 3X72-pin Simms)	$94
486DX2/DX-4 PCI (3 PCI, 4 ISA, 4X72-pin, IDE onboard, 256K)	$102
486DX2/DX-4 (3 slots LB w/256k, 72 pins) (Genoa)	$119
486DX4/PCI (ASUS/ECS) (5XISA,4XPCI slots with 256K)	$135
486DX2/DX4 (8X30 & 2x72 pin Simm slots)	**$114**
IBM Blue-Lightening, 75MHz w/CPU, MathCO and 256K Cache IDE/I/O on board	**$153**
Intel Pentium 90-133 MHz w256K Cache (Zappa-Triton chipset)	**$209**
Pentium 75-100 MHz w/256k Cache, Triton Chipset (ASUS) Asych/Pipeline cache	$205/245
Intel Pentium M/B (Endeavor) (75Mhz to 133 Mhz) w/ built in sound blaster & 256K ASYNC/pipeline burst cache	$229/275
Intel Pentium M/B (Atlantis) with Built-in Sound Card and ATI Mach 64 Video Card, and 256K Pipeline burst Cache	$410

MODEMS

14.4/14.4 Fax/Modem Int/Ext	$38/67
US Robotics Sportster Si	$60
US robotics 28.8/28.8 Fax/modem internal	$185
28.8/28.8 Fax/modem internal	$115

SOUND CARDS - CD-ROMS



Sound Blaster 16MCD	$79
Sound Blaster 16 IDE (Vibra)	$69
MediaMagic ISP/16 with Audio	$54
Sony CD-ROM Double Speed	**$69**
Teac X4/X6 CD-ROM	**$109/169**
Mitsumi Quad-Speed IDE	**$109**
Toshiba X4/X6 SCSI	$295/315
Toshiba 5302, IDE, X4	**$129**

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1.2 GB	71260A	$259
1.6 GB		$299
CONNER		
635MB	CFS635A	$Call
850MB	CFS850A	$189
1.2GB	CFS1275A	$255
2.1GB	CFP2105S SCSI-II	$625
WESTERN DIGITAL		
635MB	**WDAC 2635**	**$169**
850MB	WDAC2850	$179
1.2GB	**WDAC31200**	**$269**
1.6GB	**WDAC 31600**	**$319**
QUANTUM		
540MB	MV540S (SCSI-II)	$169
730MB	LT730AT/LT730S	$Call
1.08GB	FB1080A/FB1080S	$219/$269
1.2GB	FB1280A	$249
2.1GB	XP32150S	$785
2.2GB	VP32210S/W	$659/$799
4.3GB	XP34301S	$999
MICROPOLIS		
2GB	SCSI-II (3221)	$920
3GB	SCSI-II (1936)	$745
4GB	SCSI-II (3243)	$1375

FLOPPY DRIVES

TEAC 1.2MB FDD	$42
TEAC 1.44MB FDD	**$31**
Mitsumi 1.44MB FDD	$27

MULTIMEDIA BUNDLES

Panasonic double-speed / Teac quad-speed CD-ROM
Media Magic 16-bit sound card
Pair of speakers
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NETWORK CARDS

NE 2000 16 bit Combo Soft. Config	**$24**
CWL 9406 Combo. S/W Config.	**$35**
CWL 9510, PCI, Combo. Plug & Play	**$69**
SMC Elite 16T Ultra Enet/Elite 16C	$95/109
Intel Etherexpress Pro, RJ45	$99
3COM 3C590/TP0, PCI	$129
Intel Etherexpress Pro/10/100, PCI	$135/165

CONTROLLERS

IDE	VL 2FD/2HD 1:1	$21
SCSI	Adaptec 1542	$165
SCSI	Adaptec 1542 (kit)	$249
SCSI	Adaptec 2940/2940W	$195/258
IDE	I/O Card	$13

CASES

Mini Tower case w/ 250 W PS	**$34**
Desk Top case w/ 250 W PS	**$35**
Medium Tower case w/ 250 PS	**$52**
Full Tower case w/ 250 W PS	**$65**

MONITORS

ViewSonic 14", VG6, 1024X768, 0.28, NI	$270
ViewSonic 15ES/15G/15GS	$379/425/440
ViewSonic 17GS/17PS/17GA	$709/869/765
Optiquest 1562A, 15", 1024X768,0.28	$365
Optiquest 2000DC, 15", 0.27 SVGA	**$405**
Samsung 17GLs, 17", 0.26, 1600 X 1200	$795
Samsung 17GLi, 17", 0.28	$685
Samsung 17GLsi, 17', 0.26	$829

VIDEO CARDS

SVGA 1MB (Trident)	$62
Trident 9440 PCI/VLB 1MB	$68
DIAMOND	
Stealth 64, 1MB DRAM PCI/VLB	$110/115
Stealth 64, 2MB DRAM PCI/VLB	$149/155
Stealth 64, 2MB VRAM, PCI/VLB	$259
Stealth 64 Video, 2MB DRAM PCI/VLB	$155/159
Stealth 64 Video, PCI, 2MB/4MB	$249/395
ORCHID	
Kelvin 64 VLB/PCI, 1MB/2MB	$125/172
ATI	
ATI Winboost PCI/VLB 1MB DRAM	$119/129
2MB DRAM	$163/169
ATI Winturbo PCI/VLB 2MB VRAM	$255
4MB VRAM	$399
NUMBER 9	
#9, Vision 330 PCI/VLB, 2MB DRAM	$140
#9, GXE64, PCI/VLB, 2MB DRAM	$229
MATROX	
Millennium PCI 2MB/4MB WRAM	$275/$454

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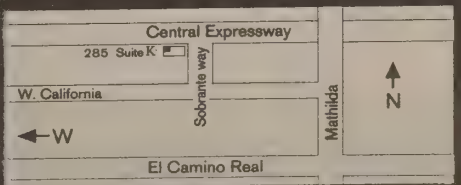

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- 14" SVGA Non-Int Monitor 28DP
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P5 PCI Triton Chipset 256KC IDE I/O	$148
Intel Zappa 2456KC	$208
Intel Endeavor 256KC	$318
Asus Triton P5 256KC	$198
Asus Dual P5 256KC	$338
Other	$CALL

VIDEO CARDS

Cirrus Logic PCI 1MB	$58
Orchid Kelvin VLB 1MB	$95
Orchid Kelvin PCI 1MB	$118
Orchid Kelvin PCI 2MB	$158
Diamond Stealth PCI 1MB	$118
Diamond Stealth PCI 2MB	$158
Diamond Stealth PCI 4MB VRAM	$385
Herculs Stingray PCI 1MB	$65
Other	$CALL

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Acer 14" NI 28	$228
Acer 15" NI 28	$338
Acer 17" NI 28	$618
Socos 14" NI 28	$219
NEC XV15	$475
NEC XV17	$750
NEC XE20	$1888
Viewsonic 15GS	$425
Viewsonic 17GS	$695
Viewsonic 20G	$1180
Other	$CALL

HARD DRIVES

Conner 540MB IDE	$162
Conner 850MB IDE	$185
Conner 1.2GB IDE	$252
Conner 1.08GB SCSI II	$325
Conner 2G SCSI II	$615
Maxtor 540MB IDE	$162
Maxtor 1.2GB IDE	$250
Maxtor 540MB IDE	$162
Quantum 540MB IDE	$165
Quantum 2.1GB SCSI	$675
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Seagate 2.1GB SCSI II	$880
Other	$CALL

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4MBx9-70 (30 Pin)	$CALL
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4MBx32-70 (72 Pin)	$CALL
8MBx32-70 (72 Pin)	$CALL
1MBx36-70 (72 Pin)	$CALL
2MBx36-70 (72 Pin)	$CALL
4MBx36-70 (72 Pin)	$CALL
8MBx36-70 (72 Pin)	$CALL

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IDE & I/O Controller ISA	$10
IDE & I/O Controller VLB	$16
EIDE Controller PCI	$18
Adaptec 1542CF	$165
Adaptec 2842 VLB	$228
Adaptec 2940 PCI	$188
Adaptec 3940 PCI	$398
Other	$CALL

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Zoltric 14400 Fax/Modem	$45
Zoltric 28800 Fax/Modem	$125
US Robotic 14400 Fax/Modem	$85
US Robotic 28800 Fax/Modem	$185
Other	$CALL

MULTI MEDIA

Sound Blaster Pro 16	$65
Sound Blaster AW32	$165
Mitsumi 4x CD-ROM	$135
Teac 4x CD-ROM	$135
Panasonic 4x CD-ROM	$138
Toshiba 4x CD-ROM	$138
Toshiba 6x SCSI CD-ROM	$315
25W Speakers	$35
80W Speakers	$48
Other	$CALL

NETWORK CARDS

3COM 16TP	$75
3COM 16COAX	$65
3COM 16COMBO	$95
SMC 16TP	$95
SMC 16COMBO	$115
Other	$CALL

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Impression Serial Mouse	$9
Microsoft Serial Mouse	$22
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Maxi Enhanced K/B	$25
Keytronic 101 K/B	$28
Other	$CALL

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Mini-Tower Case 230W P/S	$32
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Full-Tower Case 250W P/S	$95
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Other	$CALL

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- *Price & Availability Subject to Change W/O Notice*
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Online Guide

Web Page Listings *continued...*

OrchidMania *http://www.orchids.org* Orchid maniacs raise money for grassroots AIDS programs worldwide with the "World's Largest Orchid Garage Sale." Plenty of orchid growing information. [Exp. #146.]

OSU Government Information Sharing Project *http://govinfo.kerr.orst.edu/* Funded by the U.S. Dept. of Education, this site provides access to detailed population and agricultural statistics for Northwest states. [Exp. #146.]

ParentsPlace.Com *http://www.parentsplace.com/* The parenting resource center on the Web: reading rooms, chat, shopping mall with parenting and child-care products. [Exp. #146.]

People Who Care *http://www.people-who-care/people* HIV programs, community organizations, job training, homeless care, counseling, cultural activities at St. Paulus. [Exp. #146.]

PETA *http://envirolink.org/arrs/peta/index.html* PETA, People for th Ethical Treatment of Animals, online includes factsheets, updates, membership info, a list of cruelty-free companies, and other resources. [Exp. #146.]

PGPfone Home Page *http://web.mit.edu/network/pgpfone/* A software package that turns your desktop or computer notebook into a secure phone. The Beta Test is available for the Macintosh with Windows 95 version in the works. [Exp. #146.]

Portola Views *http://www.primenet.com/~martonj* Portola Hills Community Bulletin Board, providing events, activities, and neighborhood interface with a virtual Town Hall. [Exp. #146.]

Rainbow Flag Health Services *http://www/leland.stanford.edu/~blandon/rainbow.html* A new Known Donor Sperm Bank serving the Gay and Lesbian community of the San Francisco Bay Area. [Exp. #146.]

Rebecca Pack & Associates *http://www.value.net/execsol/~execsol.html* Pictures and information of missing children. Offers hot spot advice for small and large businesses. [Exp. #147.]

Republican National Committee *http://www.rnc.org/* Depicting a block from a typical American town, there are thousands of things for a visitor to do on the RNC homepage. [Exp. #147.]

Saigon Net Home Page *http://www.saigonet.com/* N. California Vietnamese Community activities, two news magazines, business directory, pagodas, and information on Vietnam. [Exp. #146.]

Art

Salvador Dali Museum *http://www.highway.com/dali/* Features lots of cool Dali images, including flies and melting clocks, and explains how the museum got to be located in St. Petersburg. [Exp. #146.]

Com

San Francisco SPCA *http://www.sfspca.org/* Inspect pictures and descriptions of cats and dogs currently available for adoption. [Exp. #148.]

San Jose Baha'i Community *http://www.ccnet.com/~nep/bahai/sjca/* Local and international information on the Baha'i faith. Searchable Baha'i Holy texts. [Exp. #148.]

Santa Barbara International Introduction Center *http://www.rain.org/~sbintl/* A website serving a group of Eastern European women, primarily from Minsk, Belarus, but also from Tashkent and Uzbekistan. [Exp. #146.]

SF Jewish Bulletin *http://www.jewish.com/jb* The first Jewish weekly newspaper available in its entirety on the Web, includes articles, columns, calendar listings, classified ads, and more. [Exp. #146.]

Shtetl *http://sunsite.unc.edu/yiddish/shtetl.html* An electronic multimedia collection of Yiddish texts, archives, bibliographies, artworks, songs and materials. [Exp. #148.]

Simon Wiesenthal C *http://www.wiesenthal /*[Exp. #146.]

Org

Society For Techn Communication, San cisco Chapter *http:/ org/* International non organization for tech writers and editors: r ings, newsletter, job competition, annual co ences. [Exp. #147.]

Some Bay Area Prog sive Stuff *http://w emf.net/~cheetham/ind ml* An events calenda organizational directo the Bay Area progres community. [Exp. #146

Stanford Asian Amer Activities Center *ht www-leland.stanford. group/a3c* A resourc anybody interested in American topics. [#148.]

Stardust: To Catc Comet *http://pdc.jpl. gov/stardust/home.* Stardust is a NASA s exploration mission fo 21st century. Launch o probe is slated for 1999, with the encount comet Wild 2 set for 2003 [Exp. #147.]

Ent

Steppinstone Entert ment *http://www.prim com/~kantoku/* Web creating services, inde dent film company info tion, and more. [#147.]

The Bionomics Insti *http://www.bionomics.* Changing the parad from economy-as-mac to economy-as-ecosys [Exp. #147.]

Org

The Computer Hist Association of Califo *http://www.chac.org/c* An introduction to CHAC, includes ftp o issues in plain text, link other computer hist pages, and more. [E #146.]

The Economist *http://w earthlink.net/~the-ec mist* Read issues of interest compiled by Los Angeles bureau of Economist magazine. [#146.]

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Network Products for Less!

VISA MasterCard AMERICAN EXPRESS Cards Welcome

10 Base-T Twisted Pair Ethernet

ALLIED TELESYN Transceiver (AUI-RJ45)/(AUI-BNC)	34
3COM 3C509TP 16-bit/5-Pk/20-Pk	114/490/1,751
3C509TP0 (w/o DOC or DRIVERS)	85
3C509B-TP0 Sing/5-Pk/20-Pk/60-Pk	109/458/1,630/4,412
3C509B COMBO/5-Pk	129/568
3C509B Combo 20-Pk/60-Pk	2,061/5,661
3C529B TP/ MCA/5-Pack	244/1,026/5,661
3C592 TPO EISA/5-Pack	210/832
3C592 EISA Combo/5-Pack	230/916
INTEL Pro TP/5-Pk/20-Pk/60-Pk	101/430/1,518/5,424
EE Pro TP&BNC/5-Pk/20-Pk/80-Pk	110/481/1,821/6,410
EE Pro TP w/Flash /5/20/80-Pk	116/462/1,670/5,918
EEPro TP&BNC w/Flash /5/20/80Pk	126/532/1,987/7,039
SMC EtherEZ ISA Plug N Play Combo	129
Elite Ultra 16TP/6-Pk/24Pk	95/478/1,697
Elite Ultra Combo/6-Pk/24-Pk	108/591/2,122
Elite 10T/A 10 BaseT MCA	198

PCI Lan Adapters

3COM 3C590TP0 PCI 1/5/20/60 Pack	129/580/2062/5552
COGENT EM960TP PCI 10BaseT	148
MICRODYNE NE5500 PCI Combo/5-Pk	163/740
RACAL INTERLAN PCI TP/Combo	138/152
SMC EtherPower PCI 10BT/5-Pack	143/645
EtherPower PCI Combo/5-Pack	155/750
THOMAS CONRAD TC5048 PCI 10BT/5-Pk	207/884

100 MegaBit Lan Cards

3COM 3C595 10/100BaseT PCI/5/20 Pack	170/734/2,691
3C597 10/100BaseT EISA/5-Pk	265/1,262
3C771A EISA FDDILINK-FIBER	1,324
3C772 STP Module	236
3C775 UTP Module	761
ASANTE AsanteFAST 10/100 PC/MAC PCI	217
FARALLON PN990 NUBUS/PN994 PCI	356/263
INTEL EExpress Pro 10/100 PCI/5/20Pk	156/708/2,510
EExpress Pro 10/100 EISA	260
NATIONAL SEMI 10/100 ISA	192
Infomover 10/100 ISA 5/25/50	861/4,013/7,213
NF3000-F-1 FDDI ISA/EISA Fiber	1,336/1,230
NETWORTH SwiftNIC 10/100BaseT PCI/EISA	251/398
ROCKWELL 8-port FDDI UTP Concentrator	4,595
SMC EtherPower 10/100BT PCI Single/5-Pk	220/1,049

Fast Ethernet Hubs/Bridges

3COM 3C250-TX/I 12 100 BASE TX stackable hub	1,995
ASANTE AsanteFast 100 BaseT Hub	1,738
AsanteFast 10/100 Bridge	1,271
INTEL Express Stackable Hub 12 100TX	1,769
NETWORTH Micro100 100BaseT 8-port Hub	1,380
Micro 10/100 24 port 10/100 Auto Sensing hub	3,808
FastStack 100BTX 12-pt Unmanaged/Man.	2,520/3,361
SMC Tigerhub 100 8 100BASE-TX Hub	1,222
Tigerhub 100 16 100BASE-TX Hub	2,464

Token Ring

3COM TokenLink III 16/4/10-Pk	260/2,389
TokenLink III EISA 16/4	576
IBM Token Ring 16/4 Adapter II	426
INTEL Token Express Pro 16/4 ISA	277
PROTEON P1392+ Token Ring 16/4/10-Pk	430/4,049
SMC Token Ring Elite 16/4 Single/12-pack	264/2,900

PCMCIA/Parallel Port Adapters

3COM 3C589C PCMCIA 10BT/COMBO	164/216
3COM 3C689 PCMCIA TR/5-Pk	410/1,935
IBM Credit Card Coax/TP Adapter	242/261
Credit Card Token Ring 16/4 Adapter	480
NATIONAL SEMI PCMCIA Ethernet Adapter	189
Additional Media Coupler for Thin/10BT	79
SMC ElitePort EtherNote Combo	235
XIRCOM Pocket Adapter III 10BaseT	284
Pocket ENET III COMBO(BNC & 10BaseT)	325
Pocket PEM-10BT Fax/Modem 10BT/BNC	500
PCMCIA IIPS 10BaseT/Combo/TR	163/213/450
PCMCIA Enet 28.8 Modem & Fax 10BT/Combo	478/542

Concentrators & MAUs

3COM Linkbuilder TP/12 NO AUI/BNC	350
ASANTE 8-Port w/AUI&BNC/12-Ports	165/335
24-Port w/AUI	511
ALLIED TELESYN 4/8/12 Port (AUI)	209/229/456
MICRODYNE 5318+ 16 ports w/BNC&AUI	547
BAY NETWORKS 800 8-port w/AUI	294
2800A 16 ports w/AUI	572
HP Advanced Stack 8-port/16-port	279/542
SMC 3608TP 8-Port/3512TP 12-port	304/568
Elite 4000C TR Mau 8-port/16-port	722/1,106
3COM Linkbuilder TR 3C510180	1,875

SNMP Manageable Concentrators

3COM Linbuilder FMSII TP 12-port	576
Linkbuilder FMS II TP 24-port/48-port	1,014/2,200
Linkbuilder FMS II Management Module	480
HEWLETT PACKARD Advanced Stack 12-port	617
Advanced Stack 24-port/48-port	1,062/1,963
Advanced Stack SNMP module	462
Advanced Stack 12-port w/SNMP	960
Adv. Stack 24-pt w/SNMP/48-pt w/SNMP	1,440/2,261
NETWORTH 8-Port Snappable	650
16-Port Snappable Hub/48Snappable Hub	930/2,603
16-Port SnapView Bundle (1 Hub/HubView Sw)	1,296
24-Port TriSegment Stackable Hub	1,288
24-Port TriSegment Mgmt. Hub	2,041
PowerPipes Ethernet/FDDI Switching Hub	7,487
BAY NETWORKS 810M 8 ports w/ AUI managed	572
2803 16-port w/AUI/2804 w/FIBER	649/875
2813-04/2813-05 16-port w/AUI	1,576/1,010
2814-04/2814-05 16-port w/FIBER	1,791/1,246

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Buy Novell NetWare Connect v2.0 2-pt and get a FREE Equinox SST-2 Super Serial I/O!

2/8/32 port	$380/1,528/4,961

COMBINET

Get digital dialup speeds of up to 128Kbps for the cost of analog calls! Get ISDN!

PC-1060 w/NT1 and Compression	$593
CB-2060D w/NT1 Unlimited Users	$1,269

CHEYENNE

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Network Management

3COM Transcend Workgroup Mg for Windows	496
Transcend Enterprise Mgr for Windows	2,181
FRYE NetWare Mgmt 1st/Add Svr	337/277
HEWLETT PACKARD Interconn. Mgr for Win	407
Interconnect for OpenView	2,010
INTEL LanDesk Manager	1,047
LanDesk Mgmt Suite 5users/10/100	438/584/3,469
LanDesk SNMP Gateway/Response	578/717
LanDesk Traffic Analyst	718
LanDesk OpenView for Windows	1,789
NOVELL Lanalyzer for Windows v2.1	1,100
NetWare Management System	1,692
NetWare Management Agent (Single)/20PK	338/5,382
NetWare LANalyzer Agent v1.0 (Single)	1,008
NetWare LANalyzer Agent (Multiple Segment)	1,692
NETWORTH HubView or HubView for NMS	733

Long Distance Repeaters

TUT Systems XL1501 (1BNC/1RJ11) 1500'	991
XL1502 (2BNC/2RJ11)	1,416
XL1503 (1BNC/1RJ11/1AUI)	1,057
XL1504 (4BNC/4RJ11/1AUI)	2,752
XL600+ 600' Repeater (1 Pair)	499
Dual Port Repeater BNC/BNC/Quad Port	199/249

Tape Backup Solutions

ARCADA Backup Exec Single Server 25 Users	334
Backup Exec Single Server Unlimited Users	474
Backup Exec NetWare Enterprise NLM	916
CHEYENNE ARCserve v5.01 NLM 5/10	261/511
ARCserve v5.01 25/50/100 users	882/1,082/1,219
ARCserve v5.01 250/500/1000	1,502/2,551/5,842
JETserve Backup	5,026
Changer Option for v5.0/Stacker Option	456/470
PALINDROME Backup Director NLM 1 SVR (25 Users)	256
Backup Director NLM 1 SVR/Multi-Server	585/1,011
Storage Manager Single Server/Multi-Server	1,435/2,522
COLORADO Power Tape 1.1GB w/o Ctrl	696
Power Tape Int. 2GB SCSI Tape Drive w/Ctrl	1,065
Power Tape 50-4 GB SCSI Tape Drive w/Ctrl	1,295
EXABYTE 8205XL 8mm 3.5-7GB Drive Int/Ext.	1,419/1,692
EXB-8505XL 8mm 7-14GB Drive Int/Ext	2,214/2,410
EXB-8700 8mm 7-14GB w/Arcada Backup for DOS and choice of NLM or NT software	2,100
HP C1536 DDS 4mm 4-8GB DAT Int/Ext	840/990
C1533 DDS2 4mm 8-16GB DAT Int/Ext	1,117/1,267
ST. BERNARD Open File Manager	495

Bridges/Routers/CSU

Rockwell NetHopper NH-5 Remote Access Router	CALL
NetHopper NH-P NetWare Async Rtr w/v.34	1,542
NetHopper NH-SYNC+ Sync Router	CALL
MOTOROLA DDS/MR64 V.35 or RS232	463
FT100S V.35 or RS232/FRAME RELAY	1,000/2,000

Switching Hubs

3COM LinkSwitch 1000 12 RJ45, 1 Fast Ethernet	2,925
LinkSwitch 1000 24 RJ45, 1 Fast Ethernet	3,536
Kalpana EPS500 EtherSwitch 5-pt w/SNMP /Full Dplx.	2,352
EPS2015-041 EtherSwitch 15-pt w/SNMP	6,271
NLM Load Balancing Software	441
SMC TigerSwitch XE 24-pt	6,926

Remote Access

CITRIX WinView Software 10-User	2,354
NOVELL NetWare Connect 2/8/32 pts	380/1,528/4,491
NetWare Connect 2-port w/Modem and Serial I/O	1,064
NetWare Connect 8-port w/Modem and Serial I/O	4,055
HEWLETT PACKARD AdvanceStack Dial-A-LAN Modules	
2A/Plus Module w/2 v.34 28.8 Modems J2623A	2,132
2A/Plus Module and SNMP Bundle J2633A	2,241
4A Module w/4-async ports J2624A	1,706
4A Module and SNMP Bundle J2634A	1,777
SHIVA Net Modem/E 28.8	1,332
Lanrover/2E Plus w/ 2 V34 modems	2,422
Lanrover/2E Plus w/ 1 V34 modem & 1 Async	CALL
Lanrover/2E Plus w/ 2 Async	1,752
Lanrover/E 3.5 8prt	3,847
Lanrover/E Plus Async 8prt w/o modems	5,179
Lanrover/E Plus 8-port w/v.34 modems	7,898
DIGI INTERNATIONAL Digi 2-Pt/4-Pt/8-Pt	200/455/588
U.S. ROBOTICS 2-port Lan Modem Enet/TR	1,590/1,986
XIRCOM NetAccess 4-pt/8-pt	2,609/4,563

ISDN Connectivity

3COM Impact ISDN 3C871 (MPPP)	488
Impact ISDN 3C872 (MPPP) w/ modem	562
ASCEND Pipeline 50 ISDN Single w/NT1	961
Pipeline 50 ISDN Multi w/NT1	1,342
Pipeline 400B/400T/400-4BRI	3,393/4,680/7,605
COMBINET PC-1030 w/o NT1	382
PC-1040 w/NT1/PC-1050 (Comp) w/o NT1	536/459
CB-2050B 4 Users w/o NT1	765
CB-2060A Unlimited Users w/o NT1	918
900 ISDN PRI Enterprise Access Server	3,539
CISCO Systems LAN2LAN Personal Office ISDN-BRI	506
LAN2LAN Remote Office ISDN-BRI	1,412
LAN2LAN Enterprise ISDN-BRI/4 BRI	1,925/3,995
DIGI Datafire 16 Bit ISDN (PPP)	409
PC-IMAC ISDN	533
PC-IMAC Multiport ISDN/4-1/4-2/4-4	672/1,064/2,092
IBM WaveRunner ISDN ISA/MCA	562/562
7845 Extended NT1 for voice/data w/ battery	357
HAYES ISDN Adapter	733
MOTOROLA UTA220 ISDN w/NT1	669
HMTA200 ISDN/v.32/Fax w/NT1	711
BitSurfr PRO ISDN Term Adapter w/NT1/2 ANALOG	399
BitSurfr PC ISDN Internal TA	307
NT1D Network Terminator	186
US ROBOTICS Courier-I Modem w/V.34 w/Analog Int	630
Courier I-Modem w/ISDN/v.34 w/ Analog Port Ext	743
Courier-I Modem w/ISDN/V.34 w/o Analog Port Int	588
Courier-I Modem w/ISDN/v.34 w/o Analog Port Ext	702

Network Printing Solutions

CASTELLE Jetpress XIO BNC/10Base-T	381
Jetpress MIO for HP4/MIO PLUS	349/451
LANPress 10BT (1 PAR)	313
LANPress THIN/10BT (1PAR/1SER)	362
LANPress THICK/10BT (2 PAR/2SER)	512
HEWLETT PACKARD JetDirect 10BT MIO	330
JetDirect Combo MIO BNC/10BT	400
JetDirect Ethernet EX/EX Plus3	362/484
JetDirect Token Ring EX/EX Plus3	567/682
INTEL Netport EL Ethernet/Token Ring	422/588
NetportExpress XL for Ethernet/Token Ring	463/618
MILAN Fastport 3110CX 10BT, Multi-Protocol, 1P/2S	396
Fastport 3210X 10BTMulti-Protocol, 2P/2S	485
Fastport 3500X TR Multi-Protocol	521

Network Fax Solutions

CASTELLE FaxPress 1000, 10BT/BNC	1,576
CHEYENNE FaxServe 3 NLM 5/10/25	393/717/1,177
FaxServe 3 NLM 50/100	1,816/2,533
FaxServe 3 NLM 250/500/1000	3,801/4,982/6,229
DELRINA Net Satisfaxtion for 8 fax boards (25 users)	786
Net Satisfaxtion (1000 users)	1,040
Winfax Pro for Networks 10/25/50	626/1,489/2,774
Starter Kit (1 Server, 2 nodes)	284
GLOBAL VILLAGE FaxWorks Pro 2/10/30	145/494/571
PURE DATA Satisfaxtion Modem 200/400	244/315
Satisfaxtion Modem 2000/4000 2port/4port	1,157/1,822
U.S. ROBOTICS Ethernet/TR Fax Server	1,970/2,227

Network CD-ROM

MERIDIAN CDNET PLUS DOS/NLM (10 Users Start)	677
CDNET PLUS DOS/NLM (100 Starter Kit)	1,482
CDNET PLUS EXPAND (50/100)	525/896
MICRO DESIGN SCSI Express for NetWare, MDI	599
SCSI Express CDROM, Non-MDI	808
CD-Rom LaserBank 600CD Ext. Single/Dual	599/1,117
MICROTEST Discport Ethernet/Token Ring	488/818
Discport w/ Discview Pro ENET/TR	733/1,066
Discport w/NEC Ext. 6X Speed CD-Rom	1,140
Discport w/NEC 6X 4CDROM in 7-Unit Tower	3,173
Discport w/NEC 6X 7CDROM in 7-Unit Tower	4,838
DiscServ NLM	558

Uninterruptible Power Supplies

APC Back-UPS 400/450	163/200
Back-UPS 600/900/1250	273/392/512
Powerchute Plus for Novell/Unix	99/149
Smart-UPS 450/700/700RM/1000	330/398/499/548
Smart-UPS 1000RM/1400/1400RM	646/675/805
Smart-UPS 2200/3000	1,183/1,901
Matrix 3000/5000/Smartcell	3,720/4,616/537
SNMP Agent for Novell/SNMP Mgr for Netware	125/145

Cable Testers & Supplies

RG58 & RG62 Rachet BNC Crimper/RJ45	45
RG58 Ethernet BNC-Crimp (100 pak)	125
RJ45 10 BaseT Connectors (100 pak)	40
10Base-T Cable (1000' min) LV3/LV 5	100/200
BELDEN PVC RG58 or RG62 Cable (1000' min)	175
PLENUM RG58 or RG62 Cable (1000' min)	350
MICROTEST MT310 Kit	739
MT350 Value Kit/Fiber Solution Kit	1,837/1,482
Penta Scanner/Compas Kit	2,706/3,967

Novell Software

Lan WorkPlace for DOS Single/10 Users	309/1,508
Lan Workplace for Mac Single/10 Users	289/1,437
Lan WorkGroup-5/10/20 Users	1,125/1,866/2,613
NetWare for Mac v3.12 200 Users/4.01	685/851
Branch Link Router/Enterprise Router	765/1,902
NetWare NFS/Gateway Bundle	2,861
NetWare NFS Service for NW4.1	2,239
Global MHS v2.0 20/50/100 Users	358/648/1,064
MHS v1.5 Network Edition 10/50/100 Users	140/504/733
MHS Multi-Network Edition 10 Users	140

E-Mail

cc:MAIL Desktop-Any Platform	72
Lan Systems License 10 users/50 Users	632/2,883
Mobile for DOS or MAC	150
Router/Fax	95/1,459
Link to SMTP v2.0/Link to UUCP	2,473/370
MICROSOFT PC Mail Server + 10 Users	485
PC Mail 5/20/100 Users	273/930/3,633
MHS Gateway/PROFS	708/3,405
SMTP/X400/Fax Gateway	3,173/3,194/1,419

Network Utilities

SYMANTEC Anti-Virus for NetWare 10/25	605/1,378
CHEYENNE InocuLAN 20/250 workstations	326/655
InocuLAN Option 25/100/250/1000	133/190/260/325
FRYE Early Warning System or Lan Directory	350
INTEL LanDesk Virus Protect (Single)	696
LanDesk Virus Protect 4-pk/20-pk	2,070/6,757
MICROTEST Lan Assist or Map Assist	211
ONTRACK Data Recovery NetWare	214
PALINDROME Prepare! Disaster Recovery SW	727
SYMANTEC Norton Admin. 5/10 Users	247/438
Norton Admin. 25/50/100 Users	1,068/2,028/3,680

ARTISOFT Peer-to-Peer Networking

ARTISOFT LANtastic 6.0 Network Starter Kit	244
LANtastic 6.0 Add-On Kit Coax/10BT	135
LANtastic 6.0 Software Single/5/10 User	99/354/637
LANtastic Management Serv./Advan	144/578
LANtastic Dedicated Server 2-10	535
Central Station NetWare	447
Noderunner/SI Coax or TP/Combo	109/129
Lantastic for MAC	433
Lantastic for TCP/IP Single/5 Pk	220/883
Power Suite Single/5/10/25/50	168/694/1,225/2,429/3,883
Power Suite Starter Kit 2 Users	412

Server Mirroring

VINCA Standby Server ISA/EISA	1,363/1,603
Standby Server 32 w/ Autoswitch ISA/EISA	2,089/2,350
Campus Standby Server Fiber EISA/PCI	2,350/1,928

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Web Page Listings *continued*

Health / Env.

The Noble Internet Directories *http://www.experts.com/* Details about a UCSF Opthalmology Dept. research project testing a new diffractive optic to treat many new vision imperfections. [Exp. #146.]

The Objectivism Resource Guide *http://www.hypermall.com/oms/org/* Learn more about Ayn Rand—author of The Foundainhead and Atlas Shrugged. [Exp. #146.]

Third World Traveler *http://www.nbn.com/people/stevetwt* Third World Traverler provides alternative and human rights information to travelers to Third World countries. [Exp. #148.]

Ent-

This Is True *http://www.infoark.com/freecom/* Home of the popular *This Is True* newspaper column, which is also available by listserv. [Exp. #146.]

Triumph Prophetic Ministries *http://www.register.com/triumph/* Features a free bi-monthly magazine and Christian articles and tapes. Broadcast schedules also listed. [Exp. #148.]

U.S. Holocaust Memorial Museum *http://www.ushmm.org* Now provides access to the complete catalog of the U.S. Holocaust Memorial Museum Research Institute document archives. [Exp. #146.]

Emp / Edu

University of Phoenix Online *http://www.uophx.edu/onliné/* Accredited university offering online business degree graduate and undergraduate programs for working adults. [Exp. #146.]

C

US Geological Survey *http://www.usgs.gov/* Home page for USGS, with access to geologic, hydrologic, and mapping info. [Exp. #147.]

Com

VirtualGuide *http://www.virtualguide.com/* Hot links related to health, education, art, business, and fun. Great jumping off place. [Exp. #148.]

Webcorp Political Satirical Content *http://www. webcorp.com/* Pages include The Richard Nixon Audio Archive, Political Babble Generator, New Orleans Cementery Images, Wheel O'Congress, and others. [Exp. #147.]

Women's Wire *http://women.com* Women's Wire is an interactive magazine focused on women's interests. Free to visitors. [Exp. #146.]

Com

Yoga Fitness *http://www.iyoga.com/yf/* Yoga Fitness is the premier lyengar yoga studio in the South Bay. [Exp. #146.]

WEB/INTERNET SERVICES

Advertisement Network Services, Inc. *http://www.ansi.com/* ANS, Inc., in San Jose, is a complete Internet solutions provider specializing in Windows NT Web server systems, mail server systems, and Web site design and hosting services. [Exp. #148.]

BayScenes *http://www.bayscenes.com/* An affordable Web page provider for Northern California for individuals and small businesses. Customers include local bands, artists, craftspersons, sports centers, and non-profits. [Exp. #147.]

Beach.Net *http://www.beachnet.com/* Provides full net connectivity from dialup to 56K to T1 leased lines as well as a full range of Web services. [Exp. #148.]

BusinessWare *http://www.ni.net/bizware.com/* Marketing services for the Internet and beyond. Call for brochure—(714)248-5689. [Exp. #148.]

Classified Ads In The Bay Area *http://www.hooked.net/users/gcco/* Advertise your car in Automobile section, look at commercial services available in the Bay Area. [Exp. #148.]

Coastal *http://www.thecoast.com/* Reseller of Sun, SGI, Adobe, etc. Total Internet Resource, including infrastructure and Web design, development, marketing, firewall, and secure commerce. [Exp. #148.]

Computer Events Directory *http://www.kweb.com/* A leading source for information technology events worldwide. [Exp. #146.]

Data Concepts *http://www.dataconcepts.com/* Complete Internet advertising. Increase your business for pennies a day. [Exp. #148.]

Delta Design Services *http://www.deltadesign.com/* Full service Web consulting firm: consulting, design, hosting, and marketing for any size business. [Exp. #147.]

Delta Internet Service *http://www.delta.net* Internet access provider, SLIP, PPP, Shell, Usenet, IRC, FTP, Gopher, Archie, free personal Web space. [Exp. #147.]

Digital Web Designs *http://www.digitalweb.com/* Professionally designed web sites for business and individuals. CGI, Java, and more at affordable rates. [Exp. #148.]

DNAI's MacPac ISDN *http://www.dnai.com/isdn.html* Direct Network Access is the Mac user's source for easy affordable ISDN access. [Exp. #146.]

ElectriCiti Internet Services *http://www.electriciti.com/* Makers of PowerStation—inexpensively create professional Web sites in minutes, one year of Internet access. [Exp. #147.]

Electronic Pen, Inc. *http://www.epen.com/* A leading provider of interactive marketing, advertising, and design for the emerging info superhighway. [Exp. #148.]

Flamingo Communications *http://www.fcom. com/* Provides reliable Internet access to individuals and businesses in the Los Angeles South Bay. [Exp. #146.]

Fulldigital *http://urban1.ni.net/* Internet consulting, Web page development and hosting. Special interest in urban markets and equal access. [Exp. #147.]

Galaxy-Net Telecommunications *http://galaxy-net.com/* Specializes in creating pay-per-visit Web sites and building traffic to those sites. [Exp. #148.]

Global Entrepreneurs Network *http://www. entrepreneurs.net/cyberlink/gen/htm* Premier Internet Service Provider. Complete WWW Site set-up, autoresponders, ftp site, networking resources, tools, etc. [Exp. #146.]

HLC Internet *http://www.2hlc.net/* Where to go to get connected to the Net, nationwide. [Exp. #148.]

Hurricane Electric *http://www.he.tdl.com/spaceservices.html* Hurricane Electric offers web space for $1 a month as well as full-service Internet marketing including design, publicity, and analysis. [Exp. #146.]

Iguana Multimedia *http://www.iggy.com/imm.htm* Iguana Multimedia provides Internet presence (Web Pages), Web page design, and consulting for small business (at attractive prices.) [Exp. #146.]

Interactive Home Page *http://www.soos.com/homepage/homepage.html* Wishing you had your own Web page, but haven't learned html? Here's help. A do-it-yourself Web page. [Exp. #147.]

Internet Business Guide *http://www.netcreations.com/ibg/* The second edition of the Internet Business Guide. Let the experts show you how to make money on the net. [Exp. #146.]

Internet Literacy Consultants *http://www.matisse.net* We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #148.]

Internet Marketing Services, Inc. *http://www.netmktg.com/* Full service Internet solutions: quality Web pages, ISDN/T-1 access, webspace, graphics, CGI programming, online applications. [Exp. #147.]

InterNex Information Services *http://www.internex.net* Premier Internet service provider; high speed (ISDN, frame relay, WWW server). [Exp. #146.]

Joe's CyberPost *http://www.joes.com/* Put your own Instant Home Page on the Web. Shop with Joe's trading partners for the ultimate in quality, convience, and value. [Exp. #148.]

Int

The L.A. Internet Everything Guide *http://worldwide.com/laguide* A total guide to Southern California and beyond. All serious publications and entrepreneurs invited to help develop this domain. [Exp. #146.]

MediaCity World *http://www.MediaCity.com/* Comprehensive, affordable Internet services. International Business Web Sites and Design, server co-location, and HTML classes. [Exp. #146.]

MediaTrix *http://www. catalog.com/mtrix/* Home pages created for the economically challenged by the creatively gifted. [Exp. #148.]

Mommadillo's Home Page *http://www.earthlink.net/~mommadillo/* Specialists in telecommunications including BBS and Web pages. [Exp. #148.]

Muns Designworks *http://www.deltanet.com/users/dznwks/* A home page designer who specializes in 3-D graphics. This is a gallery of Paul's raytraced graphics. [Exp. #146.]

NCY Internetworks *http://www.ncy.com/* Dedicated to provide businesses, organizations, and individuals with Web site and page design services. [Exp. #146.]

Net/Biz Consulting *http://www.masterm.com/netbiz.html* The people to see if you want or need help getting connected, a Web site or page, and more. [Exp. #148.]

NetRoam, Inc. *http://www.netroam.com/* Provides Web design, publishing, advertising, consulting, support services to all types of small or mid-sized organizations. [Exp. #146.]

Polit / Soc

NewsWEB *http://www.n2.com* NewsWEB provides free worldwide news, updated throughout the day to Web users as well as dedicated distribution service for organizations. [Exp. #146.]

OneEarth *http://www.*

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- Intel **Pentium 75/90/100 MHz** CPU, **64-Bit** superscaler technology, **thermostat-control cooling fan**
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8MB RAM

	75MHz	90MHz	100MHz
Dual Scan Color	$2120	$2210	$2260
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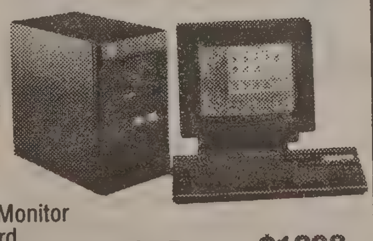

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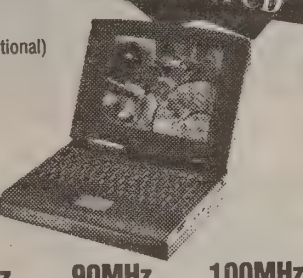

- Intel Pentium 75/90/100/120/133MHz CPU
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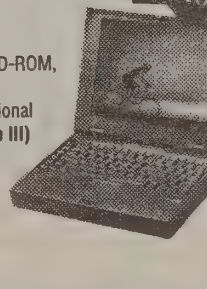

- Intel Pentium® 75/90/100/120Mhz CPU
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KP Model 9400

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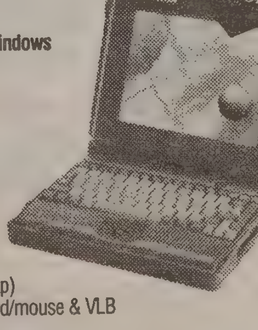

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- **Removable 340MB** Hard Drive (540MB, 810MB or 1.35GB Optional)
- Built-in **front-center 25mm Trackball**
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- Ports for serial, parallel, external, monitor, keyboard/mouse & VLB Docking Station
- Carrying Case, AC Adapter • Weight **6.6lbs**

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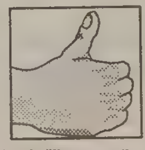

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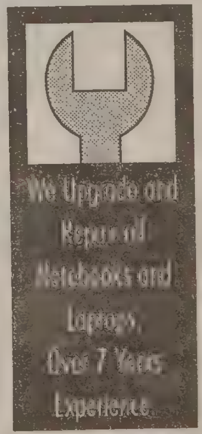

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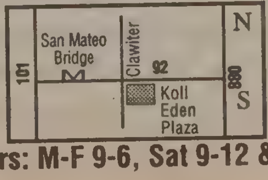

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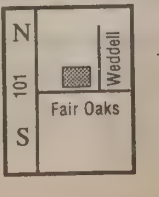

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NetServer LS 5/100 36/0 HD .. CALL

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HP DeskJet 1600CM, 600x300, Color.................. $1899
HP DeskJet 340, 600x300, Portable $279
HP DeskJet 340CV, 600x300, Portable .... CALL
HP LaserJet 4+, PS, 12ppm, 600dpi.................. $1339
HP LaserJet 4M+, 12ppm, 600dpi.................... $1879
HP LaserJet 4V, 16ppm, 600dpi..................... $1879
HP LaserJet 4MV, PS, 16ppm, 600dpi................. $2699
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- 4-PCI / 3-ISA (P&P ready)
- **256K Pipeline** Burst cache
- **TRITON** CHIPSET
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- 101 keyboard
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- **Western Digital** 1.2GB Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** internal Quad-Speed 600/KB/s CD-ROM drive
- **Integrated SoundBlaster** Vibra 16-bit sound card
- **Microsoft** Mouse
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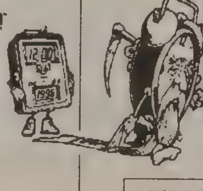

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- **TRITON** CHIPSET
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- 101 keyboard
- IDE & floppy controller on board (2 floppies, 2 hard drives, 2 serial)
- **Diamond** Stealth 64 2MB PCI video card
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- 4-PCI / 4-ISA (P&P ready), 256K cache
- **TRITON** CHIPSET
- **16MB RAM/72 pin SIMMs**
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- **Diamond** Stealth 64 2MB PCI video card
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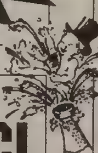

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QUAD SPEED MULTIMEDIA TOWER SYSTEM
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- 200W power supply
- 4-PCI / 4-ISA (P&P ready), 256K cache
- **TRITON** CHIPSET
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- 101 keyboard
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- **SoundBlaster** Vibra 16-bit sound card
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- **Western Digital** 1.2GB Enhanced IDE hard drive
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- **Microsoft** Mouse
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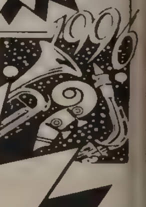

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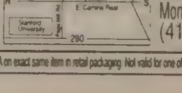

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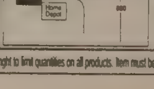

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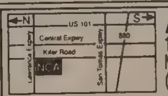

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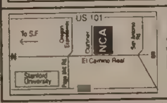

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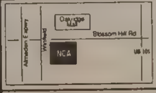

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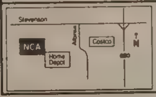

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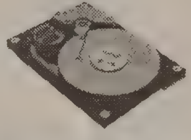

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- FWB Toolkit (MAC only)
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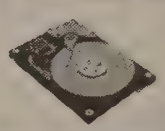

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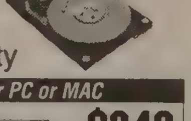

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External SCSI Drive For PC or MAC

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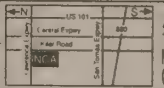

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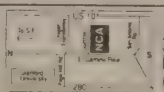

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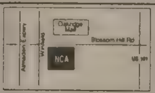

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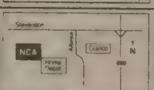

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SCSI CONTROLLERS

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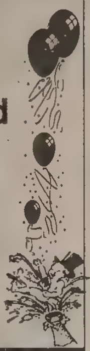


PCI to SCSI-II Controller Card
AHA-2920

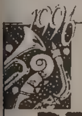
NEW!

PROGRAMMED I/O (PIO)
- Up to 10MB/s SCSI Synchronous Data Rate
- Compatible with up to 8GB Hard Drives or other media
- Windows 95, Windows 3.1, Windows NT, Windows for Workgroups, DOS 5.0 and above, OS/2 Warp, NetWare 3.12 and 4.x, UnixWare 2.0, SCO Unix Rev. 4.2 and above

$154.95

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
APA-1460	Slim SCSI-2 PCMCIA SCSI Card	$195.95
AVA-1505	TOTAL CD 16-BIT SCSI-II	$49.95
AVA-1515	Total Connect ISA to SCSI host adapter w/ BIOS	$85.95
AHA1522 A-PLUS	16-BIT 7HD/2FD KIT	$135.95
AHA-1542CP	ISA to Fast SCSI BUS Master	$235.95
AVA -2825VL	TOTAL ADVANTAGE VL	$155.95
AHA-2842A	Fast SCSI-II VESA	$235.95
AHA-2940	PCI SCSI MASTER RISC-BASED I/O	$249.95
AHA-2940UW	Ultra Wide PCI host adapter	$299.95
AHA-3940	Twin Channel PCI	$405.95
AHA-3940W	Twin Channel PCI wide	$469.95
AHA-3985	PCI RAID Adapter w/ 3RISC Processors	$709.95
APA-348	SlimSCSI PLUS	$119.95
APA-358	SlimSCSI EPP	$155.95
APA-9320	Airport 2000-Wireless infrared port for PCs	$94.95
APA-9320/9310	Airport 2500-Wireless infrared port for PCs	$Call



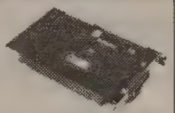
DTC DATA TECHNOLOGY

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
DTC3130B	PCI 32-Bit PCI SCSI Bus Master w/Bios	$115.95
DTC3274VL	SCSI-II Bus Mastering	$159.95

qlogic Corp.

Happy New Year



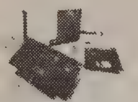
Host Adapter Card for the PCI Bus
FAST!SCSI PCI Basic
- High speed, single-chip SCSI processor
- Uses a single PCI slot
- SCAM level 2 upgrade
- Supports Fast SCSI-2 (10MB/sec.)
- Comprehensive software support
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high density external connector
- 50-pin internal connector including ribbon cable with support for 3 internal devices
- Supports up to 7 SCSI devices

$119.95

SCSI CONTROLLERS

MODEL DESCRIPTION	PRICE
FAST! SCSI PCMCIA Bus	$164.95
FAST! SCSI ISA Bus FL	$115.95
FAST! SCSI VESA Bus FL	$189.95
FAST! SCSI IQ PCI WIDE Bus	$209.95
FAST! SCSI IQ PCI-10 Bus	$205.95

BUSLOGIC



SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
KP545C	ISA Bus Master Fast SCSI Adapter Kit	$208.95
KP445C	Bus Master Fast SCSI Kit for VL Bus	$195.95
KP757C	FASTWIDE SCSI Card	$348.95
KP930C	32-Bit Bus Master FAST SCSI -PCI NEW!	$144.95
KP946C	Bus Master Fast SCSI for PCI Local Bus	$229.95
KP956C	WIDE PCI Card	$289.95

IDE CONTROLLERS

BUSLOGIC

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
KP510A	IDE Cache Contoller For PC/AT Sys.	$89.95
KP410A	IDE Cache Controller for VLB	$115.95
KP910A	IDE PCI Cache Controller	$165.95

NCA'S STANDARD IDE

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
211	2HD/2FD W/16550, 1PAR, 1GAME	$25.95
223EH	2HD/2FD for VESA LOCAL BUS 16550 I/O	$44.95

PROMISE TECHNOLOGY,INC.

IDE CACHING CONTROLLERS

Enhanced IDE Controller Card
DC-2300+
- Complete enhanced IDE support
- Perfect solution for high capacity drives with on-board BIOS
- Controls up to 4 IDE devices including IDE CD-ROM drives
- High speed I/O

FAST ATA

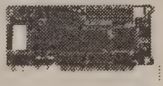
ENHANCED IDE

$59.95

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-200	ISA IDE 4HD/2FD 2.88MB Floppy support.	$87.95
DC-200M	ISA IDE 512K Cache 4HD/2FD 2.88 Support	$99.95
DC-420VLB	VESA IDE 512K Cache	$95.95
DC-4030VL-2	VESA IDE 2.88MB support 4HD/2FD	$99.95
DC2032	ISA Caching controller	$124.95
EIDE *MAX*	-16-bit enhanced IDE controller	$24.95

gsi™ Intelligent Accelerator/IDE Boards



IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
GSI 11	8-Bit 4FD/Tape Accelerator Board	$45.95
GSI 18	16-Bit 2 IDE Devices	$35.95
GSI 21	16-Bit 2FD/Tape Backup	$55.95
GSI 32	16-Bit Multi Port IDE/Tape & I/O	$115.95
GSI 4C	16-Bit 8-IDE Devices	$119.95
GSI 1645-V1	32-Bit VESA FAST ATA-2 E-IDE (2 DRIVE)	$CALL
GSI 1645-V2	32-Bit VESA FAST ATA-2 E-IDE (4 DRIVE)	$CALL

QUICKPATH

Port-Folio 16550
13-Port Super I/O Card

4 Integrated NS16550 High Speed UARTs
- 2 IDE HD
- 4 floppy
- 2 Parallel
- 4 Serial
- 1 Game

$119.95

Flexport 42-6 Port.....$99.95

DTC DATA TECHNOLOGY

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
DTC 2278D	VESA Multi I/O 2s/1p/1g Enhanced IDE	$22.95
DTC 2278E	VLB Enhaced IDE, Enhanced Parallel: Serial Port	$24.95
DTC 2278EB	VLB Enhaced IDE, Enhanced Parallel: Serial Port w/Bios	$38.95
DTC 2278D+	Enhanced IDE Multi-Functional I/O	$26.95
DTC 2280E	16550 EPP/ECP	$19.95

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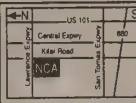

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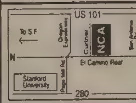

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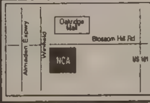

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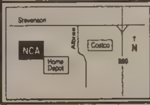

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M12

TAPE DRIVES, REMOVABLES, OPTICALS

Largest Selection Of Mass Storage Drives...At Low Prices, Guaranteed!*

Tape Backups

MicroSolutions Computer Products **backpack** — Low Price Guarantee!*

800MB External Parallel Port Tape Backup

WINDOWS 95 Compatible!

- Up to 800MB capacity with new TRAVAN technology
- UP TO 9MB/ minute backup speed
- Supports new high speed EPP & 1284 ports
- Printer pass through allows printing without disconnecting drive
- Includes FREE backup software for Windows & DOS
- 2 yr. warranty

800TD $\$159^{95}$

CONNER TAPE • STOR 800 — Low Price Guarantee!*

800MB External Tape Backup System

- Double the speed of QIC-80
- Up to 800MB capacity with new Travan Technology
- Complete backup solution for DOS and Windows
- Backs up data from local or network hard disk drives
- Fully compatible with Travan, QIC-Wide,QIC-80, and Irwin AccuTrak 250 tapes, and can read QIC-40, and AccuTrak 120 tapes
- Includes Backup Exec software for PC, mounting hardware, cables and manual

$\$229^{95}$

COLORADO® MEMORY SYSTEMS *NOW INCLUDES WINDOWS 95 DRIVERS!* — Low Price Guarantee!*

350MB Internal Tape Backup System

- Up to 350MB capacity using data compression
- Up to 9 5MB/minute backup speed
- 200MB backup in about 20 minutes
- Includes cables
- Includes powerful, easy to use software
- Runs off of floppy port

NEW! DJ-35D $\$119^{95}$

800MB Internal Tape Backup System

- First with TRAVAN technology
- Up to 800MB capacity using data compression
- Up to 9.5MB/minute backup speed
- Includes cables
- Includes powerful, easy to use software
- Runs off of floppy port

NOW INCLUDES TAPE CARTRIDGE!

T-1000 $\$185^{95}$

HEWLETT PACKARD NEW! — Low Price Guarantee!*

2.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE

- 2GB of Data on a Single Cartridge
- Avg. 50sec. File Find (Fastsearch)
- 183Kb/s Transfer Rate
- Uses 60 & 90 meter Cartridge
- Compliant with all DDS DAT Drives

C1534A $\$688^{95}$

4.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE

- Typically 4GB of Data on a Single Cartridge
- Avg. 50sec. File Find (Fastsearch)
- 366Kb/s Transfer Rate
- Uses 60 & 90 meter Cartridges
- Compliant with all DDS DAT Drives

NEW! C1536A $\$788^{95}$

Removables / Opticals

'TORAY' PHASEWRITER DUAL™ — Low Price Guarantee!*

External SCSI-II Optical Drive & Quad-Speed CD-ROM Drive ALL IN ONE!

- .870MB/sec transfer rate for optical, 600KB/sec for CD-ROM drive
- Average seek time for optical 165ms, 195ms for CD-ROM drive
- Includes PC and MAC drivers
- One year drive warranty, LIFETIME warranty on the media!

NEW! $\$629^{95}$

FUJITSU *2512* — Low Price Guarantee!*

230MB 3.5" Internal SCSI-II Rewritable Optical Drive

- Includes 1 cartridge
- Fast seek time
- 3600RPM
- 256K Cache
- Software for MAC (free upon request)

$\$639^{95}$

HEWLETT PACKARD *C1716T* — Low Price Guarantee!*

1.3GB Internal SCSI-II Rewritable & WORM Drive

- 512K buffer
- Up to 1.6MB sec. read & 0.8MB/sec write
- Up to 3600 RPM
- 5MB/sec burst rate
- 23.5 average seek time

$\$1975^{95}$

IBM Imagestar Basic — Low Price Guarantee!*

230MB 3.5" Internal Optical Drive

With the advantage of SCSI performance, reliable storage at a low cost-per-byte, high capacity 230MB and a slim 3.5" format, the Imagestar 230MB Optical Disk Drive from Options by IBM is the perfect choice for all kinds of desktop applications.

- SCSI-II interface
- 230MB capacity per 3.5" optical disk
- Up to 1.4MB/sec sustained transfer rate
- Up to 5.0MB/sec burst transfer rate
- 40,000 MTBF
- 1 year warranty

$\$555^{95}$

1.3GB 5.25" Internal Optical Drive

When you're looking for the versatility to handle all you large file needs, the multifunction IBM Imagestar 1.3GB Optical Disk Drive provides a perfect solution. Combines multifunction capabilities with a 1.3GB capacity - the only drive that you can use to transport large files on rewritable, CCW Write Once, Read Many (WORM) or permanent WORM media.

- SCSI-II interface
- 1.3GB capacity per 5.25" optical disk
- Up to 1.4MB/sec sustained transfer rate
- Up to 5.0MB/sec burst transfer rate
- 180,000 MTBF
- 1 year warranty

MO-DRIVE $\$1688^{95}$

Recordable CD Drives

SONY *Sony Spressa 920 CD Recorder for PC* — Low Price Guarantee!*

Internal SCSI-2 650MB, 5.25" Recordable CD Drive

Comes with Corel CD Creator software (a data editor, audio editor, & jewel case designer), making recording quick and easy.

- **CSP-920S**
- 650MB, 74 minutes audio recording
- 360ms access time
- 1MB recorder buffer
- Write speed: 1x(150KB/sec), and 2x (300KB/sec)
- Read speed: 1x, & 2x
- Includes 3 CD-R discs

NEW! $\$1375^{95}$

HEWLETT PACKARD *HP SureStore CD-Writer 4020i* — Low Price Guarantee!*

Internal SCSI-2 650MB, 5.25" Recordable CD Drive

Comes with a complete software suite for creating custom CDs, along with the necessary media, cards, and cables to begin recording immediately.

- **C4324A**
- 650MB, 74 minutes audio recording
- <390ms access time
- 1MB recorder buffer
- Write speed: 1x(150KB/sec), and 2x (300KB/sec)
- Read speed: 1x, 2x, and 4x (600KB/sec)

NEW! $\$1049^{95}$

Floppy Drives

MITSUMI *High Quality* — Low Price Guarantee!*

1.44MB 3.5" .... $\$28^{95}$
1.2MB 5.25" .... $\$43^{95}$

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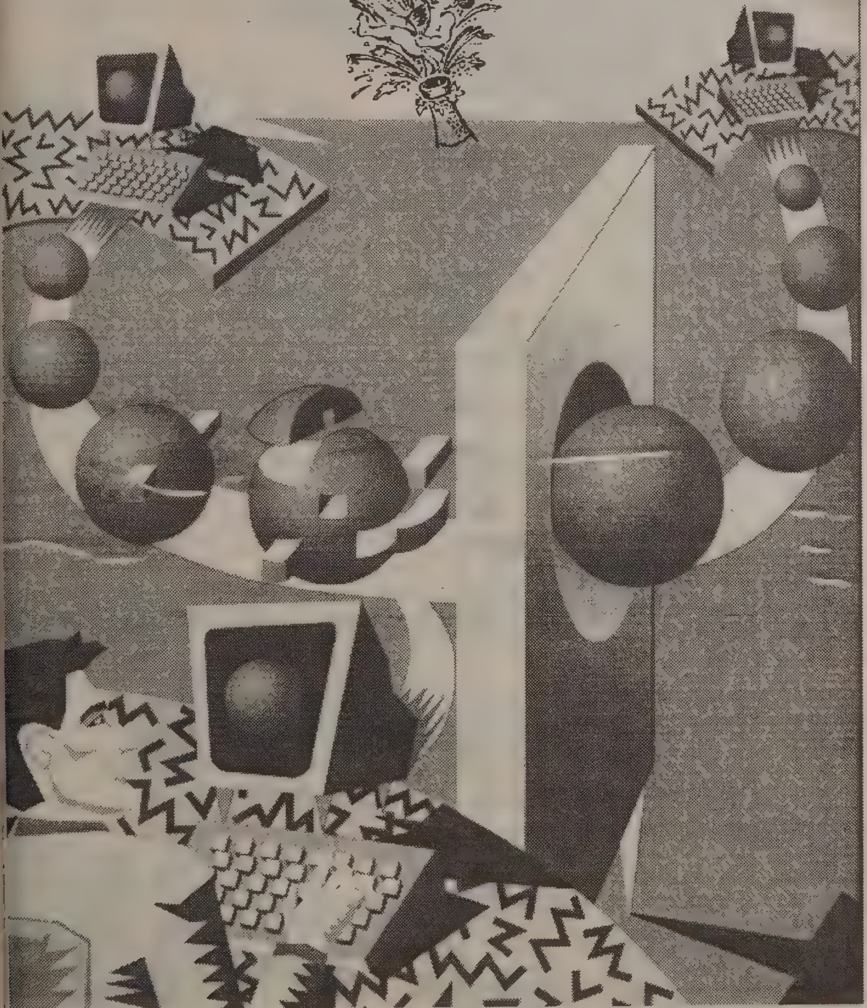
CORPORATION

BACKUP SOFTWARE FOR THE PROFESSIONALS

- •Extremely Fast operation
- •Full Mouse Support
- •Intuitive point-and-shoot file selection
- •Logging options for error reporting
- •Full restore functions to different directories or files
- •Automatic configuration
- •Built-in scheduler and user-created macros for transparent operation
- •Easy operation from batch files

NOVàWARE® Products:



Windows '95 & NT Version True 32-bit	$34.95
OS/2 Version	$64.95
MAC Version	$64.95
Novanet JR. 50 Users	$249.95
Novell-NLM Unlimited Users	$439.95

Happy New Year

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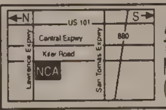
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Stanford University
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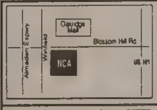
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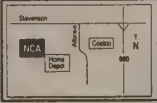
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M5

HIGH QUALITY PRODUCTS

TAPE DRIVES

PERTEC
Personal Tape Backup Drives

Happy New Year

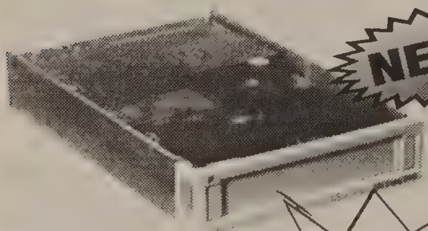
800MB INTERNAL TAPE BACKUP SYSTEM

TRAVAN TECHNOLOGY

IT'S COMPATABLE WITH:

- Travan tape 400MB uncompressed capacity, 800MB compressed
- QIC-Wide 210MB capacity uncompressed, 420MB compressed
- QIC-80 125 capacity uncompressed, 250MB compressed
- QIC-40 40 read compatability

Software included is full featured Windows 95, Windows & DOS compatible and allows for unattended backups



NEW!

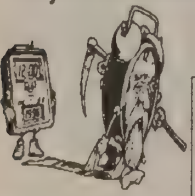
MYTAPE 800

$154⁹⁵

INCLUDES TR-1 CARTRIDGE

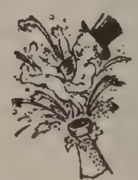
Includes:

- Internal Cable
- Detailed hardware guide
- 5.25" mounting bracket
- 3.5" Form Factor internal tape backup drive
- Easy-to-use software for DOS, Windows & Windows 95 with step-by-step manual.



TRAVAN

QIC-WIDE



VIDEO EDIT BOARDS

FAST
The Art of Digital Video.

NEW!

INTRODUCING THE *FPS 60* VIDEO EDITING SOLUTION!

FAST
Fast Electronic U.S., Inc.
FPS60

Professional Video Quality for Nonlinear Video Editing from Your Hard Drive!

Output Directly to VHS, S-Video or HI8 Tape or TV monitor!

- **60 field/30fps studio quality capture**
- **Creates 640X480 AVI file**
- **2 SVHS inputs, 1 SVHS output**
- **Video Overlay up to 1280X1024**

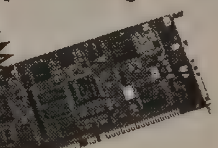
$699⁹⁵

Includes Adobe Premiere 4.0 LE, Photoshop LE, XingMPEG encoder software, Simply 3D animation software

MPEG Extension MM-50515 - **$375⁹⁵**

MOVIE MACHINE PRO

Combines hardware & software for frame & movie grabbing, live overlay, TV tuner, tape editing & video out!



NEW!

- Built-in TV Tuner
- True Color Frame Grabbing
- Video Overlay up to 800X600
- Edit, mix & playback video effects
- 2 video inputs & 1 video output
- Create stunning video productions "on-line"
- Optional Motion JPEG Daughter Card for hard drive editing

$469⁹⁵

Motion JPEG
MM-5055501 - **$429**

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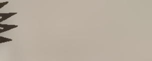

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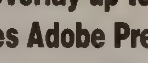

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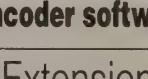

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Largest Selection Of Multimedia Products...At Low Prices, Guaranteed!*

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Low Price Guarantee!*

6.7 Speed SCSI-II Internal CD-ROM Drive

3701B

- Caddyless
- **SCSI-II** 6.7 Speed CD-ROM
- **120ms/1000kb/sec**
- MPC Level 3 compliant
- 256K buffer

NEW!

$329.95

Quad Speed Enhanced IDE Internal CD-ROM Drive

5302B

- Caddyless
- **Enhanced IDE** Quad-Speed CD-ROM
- 150ms/600kb/sec
- Multi-spin/Multi-speed
- 256K buffer

ENHANCED IDE

$129.95

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Quad Speed Internal SCSI-II CD-ROM Drive

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CDU-76S

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- 600Kb/sec. transfer rate
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CDU-77E

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ix Speed Internal Enhanced IDE CD-ROM Drive

900Kb/sec. / 135ms access time
128K cache
100% Sound Blaster compatible
MPC level 3 compliant
Windows 95® compliant
Video CD & photo CD compatible

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600Kb/sec. transfer rate
200ms. access time
Caddyless
128K buffer

CDR-273

ENHANCED IDE

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DIAMOND MULTIMEDIA *High Quality Multimedia Products*

Low Price Guarantee!*

Eight-Speed CD-ROM Upgrade Kit

NEW! **800**

- Eight-Speed IDE CD-ROM drive
- 230ms access time
- 1200KB/sec data transfer rate
- 256K buffer
- Includes Compton's Interactive Encyclopedia
- Multisession XA Photo CD compatible
- 16-bit ISA interface card

Includes:
Compton's
Interactive
Encyclopedia

$385.95

Quad-Speed 16-Bit Multimedia Kit

4400 NEW!

- Quad-Speed IDE CD-ROM drive
- 16-Bit ISA CD-quality Wavetable upgradable sound card with 3D sound
- Magnetically-shielded speakers
- Includes 20 free titles
- Windows '95 compatible

$274.95

Quad-Speed Wavetable Multimedia Kit

7000 NEW!

- Eight-Speed IDE CD-ROM drive
- 16-Bit Wavetable sound card
- Powerful stereo speakers
- 22 best selling titles, 150 shareware titles
- Microphone & ergonomic joystick
- Works with all Sound Blaster compatible games
- Quick and easy installation

INCLUDES:
All Star Sports
Collection
by Accolade

$358.95

Eight-Speed Wavetable Multimedia Kit

8000 NEW!

- Eight-Speed IDE CD-ROM drive
- 16-Bit Wavetable sound card with 3D sound
- Yamaha stereo speakers
- 5 best selling titles
- Works with all Sound Blaster compatible games
- Quick and easy installation
- Unlimited technical support

INCLUDES:
- Myst
- Rebel Assault
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$549.95

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Six-Speed CD-ROM Drive

- Aztech internal **Enhanced IDE** six-speed CD-ROM drive
- Audio & data cables included
- 190ms access time
- 900KB/sec data transfer rate
- Includes DOOM 2 on CD!

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Quad-Speed 16-Bit Multimedia Upgrade Kit

- Hitachi Quad-speed Enhanced IDE CD-ROM drive
- Multisession Enhanced IDE
- MM 16-bit sound card
- CS-80 stereo speakers
- 600KB data transfer rate
- 240ms access time
- 50 shareware titles

ENHANCED IDE

$219.95

Sound Cards

CREATIVE CREATIVE LABS, INC **Sound BLASTER**

Low Price Guarantee!*

Sound Blaster 16 Value Edition

16-bit, CD-quality stereo audio with IDE CD-ROM interface for any multimedia application. Includes free software: Ensemble, Soundo 'LE, Wave Studio, Text Assist, Mosaic, Talking Scheduler and more!
Affordable, CD-quality sound card upgradable to wavetable synthesis.

$94.95

Sound Blaster 16 SCSI-2

16-bit, CD-quality stereo audio with support for any SCSI-2 device - great for any multimedia application. Connect up to 7 SCSI devices with Adaptec controller. Includes microphone & free software: Ensemble, Soundo 'LE, Wave Studio, Text Assist, Mosaic, Talking Scheduler and more!

$174.95

Sound Blaster 32

Wavetable synthesis, CD-quality, stereo audio for music, entertainment, and business applications. Includes free GamePak CD that include special versions of Doom, Heretic, WarCraft and Decent and Creative software including Ensemble, Soundo 'LE, Wave Studio, Text Assist, & Mosaic.

$159.95

Sound Blaster AWE32 *Plug And Play*

Wavetable synthesis with SoundFonts and CD-quality, stereo audio for music, entertainment, and business applications. Includes microphone & free software: Twelve Tone Systems sequencer & Creative Labs software including Ensemble, Soundo 'LE, Wave Studio, Text Assist, Mosaic, & Talking Scheduler.

$237.95

Advanced **GRAVIS**

NEW!

Low Price Guarantee!*

Ultrasound Plug & Play

16-bit Wavetable Sound Card

- Full duplex for Internet applications
- 16-bit wavetable with automatic Windows 95 Plug & Play setup
- DAT quality playback, 32 digital channels
- IDE CD-ROM interface

3200

$124.95

Ultrasound Plug & Play Pro

16-bit, 32 Voice Wavetable Sound Card

- For the PC gamer or musician
- All the features of the Ultrasound Plug and Play Game card, plus 512K RAM built-in for custom sound capabilities and dynamic effects processing.

3300

$169.95

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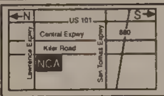

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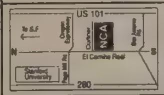

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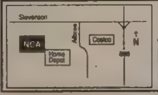

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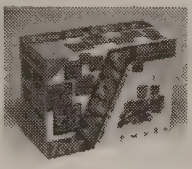
TeleVideo®

MULTIMEDIA

TeleMedia Office Suite

Multimedia Upgrade Kit - With Lotus Smart Suite!

- Quad-speed CD-ROM drive - 600KB/sec transfer rate, <200ms access time, motorized loading tray, Photo CD compatible
- 16-bit ISA, 48 kHz, stereo, CD-quality sound card - Wavetable upgradable, IDE CD-ROM interface, Yamaha OP-3, MIDI port, stereo line in/out, software configurable, jumperless installation
- Amplified 10 watt stereo speaker system - magnetically shielded, 100 - 15,000 Hz frequency response
- Includes Lotus SmartSuite: Lotus 1-2-3, Lotus Ami-Pro, Lotus Freelance, Lotus Organizer, Lotus Approach
- Includes PC-Sig's "World Of Games," over 550 games



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TeleMPEG Pro

MPEG Video Graphic Board

Experience full screen, full motion, full color video on your PC and TV with TeleMPEG Pro. Unlike standard MPEG boards, TeleMPEG Pro delivers more than just the ability to play CD movies on your PC - TeleMPEG Pro has a special video out feature that lets you watch CD movies on your TV! You can also play live-action interactive games, watch feature length concerts and movies, or use interactive educational reference manuals - all in 16-bit CD quality sound.

- ISA bus interface
- MPEG Video Standard
- NTSC and PAL composite video output
- Full MPEG Standard (ISO11172) compliant
- Supports OM-1, new Windows multimedia specifications endorsed by Microsoft
- Supports CD-I, Karaoke CD, Video CD v2.0 formats
- 16-bit CD quality stereo sound
- Up to 65,000 colors
- Resolutions up to 1024x768
- Frames Per Second: 30fps (NTSC), 25fps (PAL), 24fps (film) with sustained frame rate
- High quality analog multiplexing video overlay
- Bus free operation without affecting the bandwidth

MPC2 Multimedia PC.

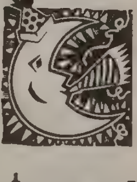
OS/2

GENERAL MIDI

MPEG

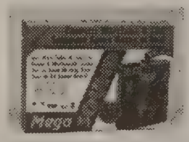
$319.95

TeleWave Q32/SRS



16-Bit Wavetable Sound Board

- Advanced DSP wavetable synthesis based sound board
- Three dimensional true to life SRS surround sound
- 16-bit CD-quality stereo sound
- 128 general MIDI instruments with 51 drum kits
- 100% Sound Blaster, AdLib compatible
- 32 note polyphony and 16 MIDI channels
- Stereo sampling rates from 4 kHz to 48 kHz
- General MIDI & MPU-401 compatible
- Easy installation and jumperless configuration
- Bundled software worth over $900



Includes MECHWARRIOR 2!

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WaveImpact 32

Wavetable Sound Daughter Board

- Advanced DSP wavetable synthesis daughter board
- 32 note polyphony and 16 MIDI channels
- 128 general MIDI instruments with 51 drum kits
- General MIDI & MPU-401 compatible
- Plug & Play onto TeleSound Pro 16 or Sound Blaster 16 compatible sound board with wave connector
- Includes MIDI Orchestrator Plus, a professional-quality MIDI sequencer

$59.95

YAMAHA WAVEFORCE™ DB50X

WAVE TABLE SOUND DAUGHTER BOARD

WAVETABLE SYNTHESIS UPGRADE FOR THE WORLD'S MOST POPULAR SOUND CARDS

Maximum 32 notes, 16 parts (Dynamic Voice Allocation), 4 MB Voice ROM, Max. 676 voices, 21 drum kits, 11 types of reverb, 11 types of chorus, 42 types of variation

$179.95

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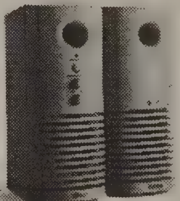
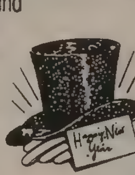
YST-M5 Active Servo Technology

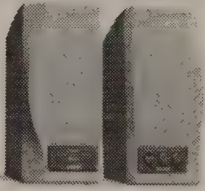


- 3 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 90Hz-20KHz ± 3dB
- Includes AC Adapter

$38.95



YST-M10

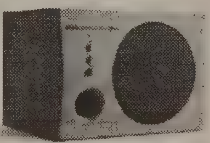


- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

$79.95

YAMAHA POWERED SUBWOOFER

YST-MSW10



- 25 Watts
- Video shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-like sound
- 35Hz-250KHz ± 10db

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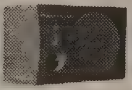
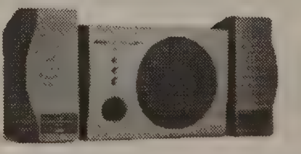
SPECIAL BUY!!!



BLACK version of YST-MSW10 (above) Limited supply-
WHILE SUPPLIES LAST!

$99.95

YST-SS1010



YST-MSW10 subwoofer *PLUS* YST-M10 speakers (see descriptions above)

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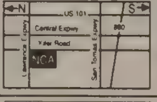

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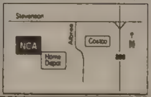

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YOUR CHOICE

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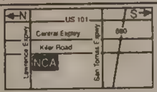
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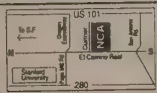
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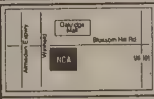
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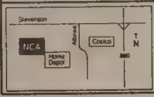
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- 190ms access time • 600KB/sec data transfer rate • IDE controller card
- Microsoft 8 games CD, 50 title games CD

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Quad-Speed 3 Disc Changer CD-ROM Kit

- Internal **Enhanced IDE** quad-speed 3 disc CD-ROM drive
- 200ms access time • 600KB/sec data transfer rate • IDE controller card
- Speakers, Microphone, headphone
- Includes Internet CD, Microsoft 8 games CD, 50 title games CD

NEW! **TBS-3000** $274.95

Quad-Speed 7 Disc SCSI-II CD-ROM Changer Kit

- External Quad-Speed **SCSI-II** 7 Disc CD-ROM
- 250ms access time • 600KB/sec data transfer rate
- No Caddy or Magazine required
- Disc change time is less than 2.5sec.

External for PC or Mac

NEW! **TBS-7400** $389.95

Six-Speed CD-ROM Upgrade Kit

- Internal **Enhanced IDE** six-speed CD-ROM drive
- 140ms access time • 900KB/sec data transfer rate
- IDE controller car • Includes Grolliers Encyclopedia, Internet CD

NEW! **TBS-6010** $285.95

Six-Speed 16-Bit Multimedia Upgrade Kit

- Internal **Enhanced IDE** six-speed CD-ROM drive
- 140ms access time • 900KB/sec data transfer rate
- IDE controller card • Speakers • Turtle Beach 16-bit Sound Card
- Includes Grolliers Encyclopedia, Internet CD, Microsoft 8 games CD, 50 title games CD, Chessmaster 3000, US Atlas, World Atlas, Mavis Beacon Typing, software utilities

NEW! **TBS-6600** $369.95

Eight-Speed Multimedia Upgrade Kit

- Internal **Enhanced IDE** eight-speed CD-ROM drive
- 140ms access time • 1200KB/sec data transfer rate
- IDE controller card • Speakers • Turtle Beach 16-bit Sound Card
- Includes Grolliers Encyclopedia, Internet CD, Microsoft 8 games CD, 50 title games CD, Chessmaster 3000, US Atlas, World Atlas, Mavis Beacon Typing, software utilities

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Sound Cards

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32 Voice Wavetable

Windows '95® Plug & Play Sound Card

Happy New Year.

- MPU-401 compatible interface • General MIDI compatible
- 128 wavetable instruments in 2MB ROM • Microphone & line input
- Line output, powered output • Sample rates from 4-48kHz

NEW! $159.95

Audio Advantage

PCMCIA Wavetable Synthesizer Sound Card

- V-Synth worlds first software based wavetable synthesizer
- Hurricane Architecture speeds audio throughput • Two interface connectors
- Windows sound card system • Multimedia microphone • 16-step analog output level control
- Includes loads of software

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Maui

Wavetable Synthesizer Upgrade

•Now you can have all of the power of today's hottest new sound cards, plus a few new wrinkles, and keep your old sound card around for games! •Ability to add new instruments via our SampleStore™ sample RAM. Maui is definitely the best of both worlds!

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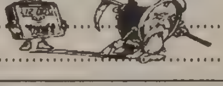
Tropez

Audio Synthesizer & CD-Rom Interface All-In-One!

- 64x oversample, 16-bit • 128 wavetable instruments in 2mb ROM • Upgradable to 12MB
- Up to 2MPU-401 compatible • MIDI interface • IDE CD-ROM port, ATI-API compatible
- Demand Mode DMA, Samplestore • 50 FREE trial games

While Supplies Last!! $179.95



Karaoke Software $22.95
Turtle Tools $49.95

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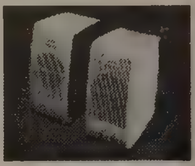
Audio Solutions for Computers!

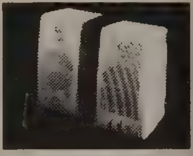
ACS51
Personal Computer Speaker System



- Designed specifically for computers to deliver high quality audio reproduction and near field audio monitoring
- Two powered satellite speakers are electronically controlled and magnetically shielded
- Line-in jacks and specially designed circuitry allow mixing of two audio sources and headphone compatibility
- Convenient on/off power switch and seperate volume and treble controls
- Compatible with all leading personal and micro computers and sound cards
- Sold complete with AC power supply

$69.95

ACS52
Amplified Speaker System



- Designed specifically for computers to deliver high quality audio reproduction and near field audio monitoring
- Two powered satellite speakers are electronically controlled and magnetically shielded
- Dual function bass control for patented Phantom Sub Output and bass boost/cut
- Line-in jacks and specially designed circuitry allow mixing of two audio sources and headphone compatibility
- Convenient on/off power switch and seperate volume and treble controls
- Compatible with all leading personal and micro computers and sound cards
- Sold complete with AC power supply

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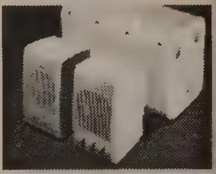
ACS53
Computer Speaker System with Subwoofer



- Designed specifically for computers to deliver high quality audio reproduction and near field audio monitoring
- Seperate powered satellite speakers are electronically controlled and magnetically shielded
- Two powered satellite speakers are electronically controlled and magnetically shielded
- Dual function bass control for patented Phantom Sub Output and bass boost/cut
- Line-in jacks and specially designed circuitry allow mixing of two audio sources and headphone compatiblility
- Convenient on/off power switch and seperate volume and treble controls
- Compatible with all leading personal and micro computers and sound cards
- Sold complete with AC power supply

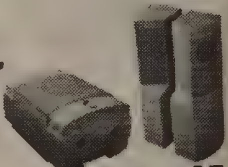
$124.95

ACS300.1
Computer Speaker System with Subwoofer

- Volume Control to adjust Combined speaker output
- A/B variable control for mixing the output of two sources
- Treble Control adjusts high frequency output
- Balance Control adjusts output level of each speaker
- Bass Volume for variable control of subwoofer output
- Headset input Jack bypasses speakers for private audio monitoring

$199.95

ACS500
Surround Sound Computer Speaker System with Dolby® Pro-Logic



- Features Dolby® Pro-Logic Circuitry, The Surround Sound Standard
- Three piece System delivers five channels of Surround Sound
- Magnetically Shielded... No Monitor Interference
- 40Watt Subwoofer at 0.8THD, with 6.5 inch throw woofer
- Sattellite Drivers: 2 Three inch mid/bass, One 1.25X2.5 inch full range & One .5 inch dome tweeter, with 7.5Watts per driver (22.5Watt total per satellite)

NEW! $304.95

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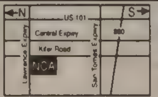

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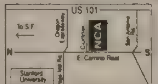

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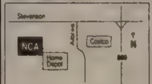

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M15

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Road Warrior Presenter

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  - Multimedia Effects Built-in to Templates
  - Import Microsoft Powerpoint or Lotus Freelance Presentations
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  - 40 ft. Remote Range
  - Plugs directly into mouse port
  - No Special Software Drivers
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  - Supports 640X480 resolution, up to 16,7 million colors
  - Simultaneous TV & VGA Monitor Display
  - Freeze & Grab TV Images for graphic uses
  - Screen Display adjustments with Over/Underscan Controls

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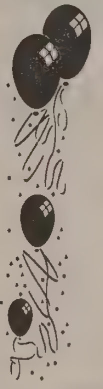

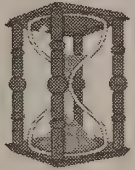

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- 320X240 65,000 Colrs at 15fps, 160X120 65,000 Colors at 30fps

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Plus NO SYSTEM RAM LIMITATIONS & NO VIDEO MOTION ARTIFACTS!

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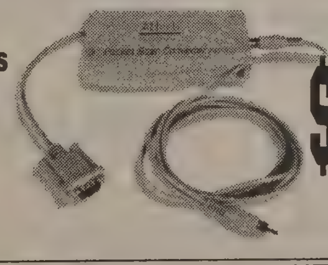
PSC-1106

Play PC Games on TV!!
Converts VGA to TV or VCRs
UP to 16.7 Million Colors



- FCC B Certified
- Vertical Refresh 60Hz
- Horizontal Sync. 31.5KHz
- Up to 640X480 Screen Resolution

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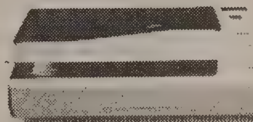
24-Bit True Color Flat Bed Scanner



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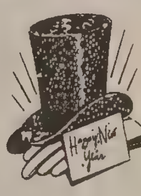
- **SCSI-II/PC or Mac**
- A6000C-Viewstation
- 8.5"x14" scanning area
- 2400x2400 dpi through software interpolation
- Intelligent LCD panel
- Long lasting cold cathode lamp
- 16.8 million colors / 256 grayscale levels



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Handheld Grayscale Scanner Kit for Windows

INCLUDES

•SCANNER

ViewScan™ /gray 256
Missing Line Compensation
TWAIN Compatible

•SOFTWARE

-WalkScan™ Boardless Scanner Adaptor for Portables and Desktop PCs
-GO-CR - OCR Software
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•SCANNER

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-MagicStitch & TWAIN Compatible

•SOFTWARE

-GO-CR - OCR Software
-PhotoStacker Pro - Image Processing Software

Handheld Grayscale Scanner

INCLUDES

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- 800dpi
- 105mm scanning width
- GO-CR - OCR Software
- PhotoStacker™ Plus - JPEG Image Processing Software with AutoStitch

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LE280

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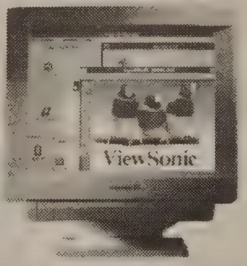
Largest Selection of Video Products...At Low Prices, Guaranteed!*



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•.27dpi •50-160Hz
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•17" SVGA color monitor
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•76Hz refresh rate
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•Microprocessor-based digital controls

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3D MULTIMEDIA SOUND AND VIDEO ACCELERATOR CARDS

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•Photo-realistic 3D graphics accelerator for Windows® 95
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•Supports fast games and multimedia applications for Windows 95®
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2120XL-1MB DRAM upgrad. to 2 MB	3240XL 2MB VRAM	3400XL 4MB VRAM
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MATROX MGA POWER GRAPHICS

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•New dual ported WRAM memory technology
•64-Bit WRAM outperforms 128-Bit VRAM
•Upgradeable to 4MB or 8MB of WRAM
•Supports all popular resolutions from 640x480 to 1600x1200
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Hercules The Fastest Real-World Windows Accelerator

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Video Graphic Accelerator Card
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•Resolutions up to 1280x1024
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•Up to 120Hz
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VLB

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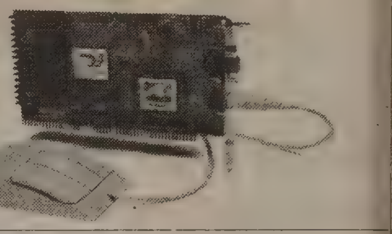

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Computer Corporation
Excellence in PC Graphics

9FX MOTION 771 Video Graphic Accelerator Card

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•Resolutions up to 1600x1200
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•Resolution exchange, true hardware zoom
•Energy star compliant
•5 year warranty

2MB VRAM	4MB VRAM
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•New performance standard w/128-bit accleration
•Drawing bandwidth up to 500 million pixels per second
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WIN TURBO Video Graphic Accelerator Card

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•Full acceleration up to 16.7 million colors
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•WinSwitch instand mode switching

2MB VRAM

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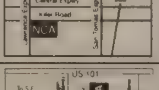

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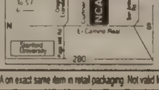

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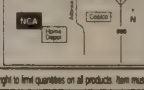

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In Stock!

Introducing MGA Millennium: The new dimension in graphics acceleration

NEW!

Fast acceleration for graphics, video and 3D at a low cost

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- Includes FREE enhanced version of NASCAR® Racing and much more!
- MGA 64-bit graphics processor (MGA-2064W)
- Dual ported Window RAM (WRAM) memory technology
- Optimized PCI local bus design
- Accelerated true color, video, 3D and DOS performance
- Resolutions up to 1600x1200 in 256, 65K, 16.7M colors
- 120 Hz flicker-free screen refresh at 1024x768
- Up to 220Mhz DAC for 85Hz refresh at 1600x1200
- Base versions available with 2 or 4MB WRAM
- Upgradable to 4 or 8MB WRAM

Happy New Year

2MB
PCI version
$329.95

4MB
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2MB Millennium upgrade module	$189.95
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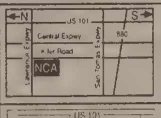
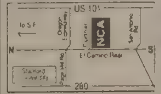
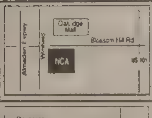


NCA SUNNYVALE OPEN TILL 9:00 PM M-F
1202 KIFER RD. (Lawrence Expway & Kifer)
Mon-Fri: 9am-9pm; Sat.9am-8pm Sun 10am-7pm
(408) 739-9010 Fax (408) 739-2420



NCA PALO ALTO OPEN TILL 8:00 PM M-F
3825 El CAMINO REAL (Curtner & El Camino)
Mon-Fri: 10am-8pm; Sat-Sun 10am-7pm
(415) 493-2444 Fax (415)-493-2480



NCA SAN JOSE OPEN TILL 8:00 PM M-F
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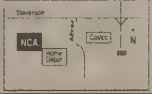
(408) 363-4600 Fax (408) 363-4610



NCA FREMONT OPEN TILL 8:00 PM M-F
40521 Albrae St (Next to HOME DEPOT)
Mon-Fri: 10am-8pm, Sat-Sun 10am-7pm
(510) 249-0850 Fax (510) 249-0855

Corporate Sales
Corporate, Dealers, Educational
(800) 961-1200
Fax: (408) 739-2420

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⑮

4 x

COMMUNICATIONS

FAX/MODEMS

CELL PHONES & PAGERS

MOTOROLA

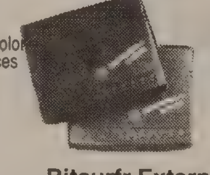
#1 Name in Communications!

NEW! ISDN Terminal Adapter - Bitsurfr *PRO*

- Multilink PPP provides 115.2K Kb/sec asynch throughput and synch BONDING protocols offer 128K Kb/sec
- Supports two analog POTS PORTS
- More than twice as fast as the fastest modem
- Access all Internet services at super speeds: over 70,000 bits per second every time
- Acts like a modem, looks like a modem, sets up as easily as a modem...but connects at ISDN speeds
- Simultaneous voice and data on a single ISDN line
- Download digital video clips, music, speeches, high resolution color photographs from the World Wide Web and other Internet services
- Send and receive massive data files fast: desktop publishing documents, spreadsheets, engineering data
- Play interactive games without annoying delays
- Everything you need for ISDN - built in NTI and ISDN line ordering codes
- Works with AT compatible software

Bonding for up to 128Kb/s

Windows 95® READY!



$359 95

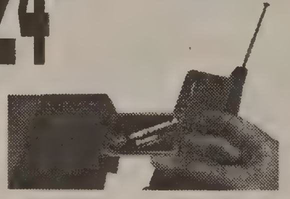
Bitsurfr External $299.95

14.4bps PCMCIA Cellular Modem

- PCMCIA release 2.0 and above, Type II compliant
- Credit card size
- High speed fax modem
- Data rates - 14.4 kpbs to 300 bps; V.32bis, V.32, V.22bis, V.22, Bell 103
- Remote configuration
- V.42bis data compression protocol
- Hayes AT command set compatible
- Low power standby modes provide maximum battery life
- Send/receive faxes at 14.4, 12, 9.6, 7.2, 4.8, and 2.4 kbps
- Fully ITU Group III compatible
- Compliant with ITU and Bell standards to communicate with a large installed base of modems
- Allows configuration of unattended remote modems
- Increases throughput to up to 57,000 bps
- Direct connect to Motorola MC² cellular phones manufactured after 6/92

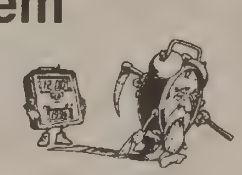
$224 95

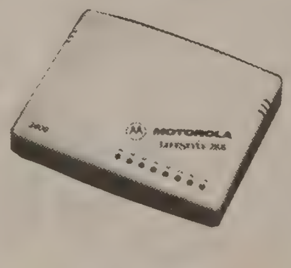
No Cellular Adapter Required



28.8bps Data/Fax Modem

- Powered by Mototola 68356 24-bit data pump with RISC technology
- True ITU V.34 technology
- High speed data modem - 28,000 bps to 300 bps
- ITU V.34, V.32bis, V.22, V.23, V.21; Bell 212, 103
- High speed fax modem with error correction
- Fully ITU Group III compatible; compatible with all Class 1 fax software packages
- ITU V.42/V.42bis and MNP 2-5 error correction and date compression
- Automatic rate adaption - adjusts the speed up or down for line conditions
- Caller ID, password, callback security and help screen functions
- Hayes compatible commands
- RS232 cable included for MAC version
- No more fuzzy faxes with Clear Fax™
- Asyncronous data rates up to 115,200 bps result in savings on line charges
- Error-free data transfer provides optimum throughput and performance
- Maximizes speed and minimizes errors for the most economical and error-free connection possiblae
- Identifies a caller before you answer the phone with a distinctive ring
- Can record who called while you were out
- Prevent unauthorized connections - supports 2 user defined passwords, and 2 callback numbers
- Online help provides quick command reference with search capability
- Conveneint modem configuration from your keyboard





PC INTERNAL	PC EXTERNAL	MAC EXTERNAL
$165 95*	$179 95*	$214 95

* After $20 mail-in rebate - expires 1-31-96

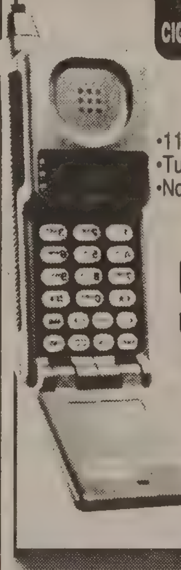
NCA WIRELESS

NCA's New Cellular and Paging Division, Specializing in Phones, Pagers, Accessories and Mobile Communications!

Largest Selection Of Phones & Accessories!

MOTOROLA MICRO-TAC LITE DIGITAL CELLULAR

FREE CIGARETTE LIGHTER ADAPTER

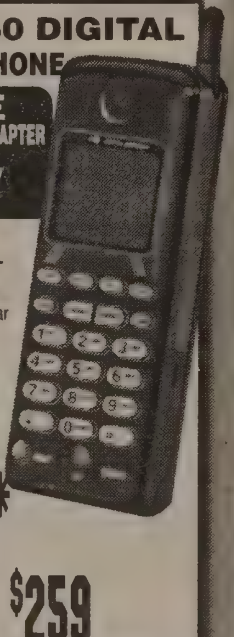


- 110 number memory
- Turbo Speed Dial
- Noise Cancelling Microphone

$15 99* PER MONTH OR **$383**

AT&T 6650 DIGITAL CELLULAR PHONE

FREE CIGARETTE LIGHTER ADAPTER & NiCad BATTERY (Mail-in Coupon)



- SUPER LIGHTWEIGHT
- Digital & Analog modes allow 2 times the cellular network access
- 125 name memory
- 74 minutes talk time 24 hours standby time

$10 79* PER MONTH OR **$259**

FREE*

Get Up To 120 Minutes of Cellular Long Distance Calling With Purcase Of A Motorola Phone.

FREE*

Cellular Calls With Purchase Of a Digital Phone Including:

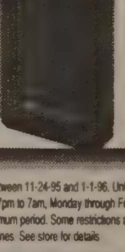
•Mon.-Fri. 7pm-7am •Weekend Calling
•Major Holidays •$10 Monthly Discount on 2nd phone

MOTOROLA BRAVO PLUS

FRONT MOUNT DISPLAY PAGER

- Musical & Vibrate Alert
- Small Pocket Size
- Your choice of brightly colored cases
- 16 number memory
- 8 number lock
- Time stamp
- SERVICE ACTIVATION REQUIRED

BRAND NEW!



$29

*FREE Long Distance Calling Cards for Bay Area Activation on Cellular One service ONLY. Service must be activated between 11-24-95 and 1-1-96. Unlimited Nights & Weekend Minutes apply to local calling area and do not count towards total minutes used to calculate Flex Plan Rates. Hours 7pm to 7am, Monday through Friday and weekends. Option must be purchased separately and is available only with Digital Flex Plan. ★ 24 month financing with approval for a minimum period. Some restrictions apply. Early termination applies. Adequate Insurance Required TAX NOT INCLUDED No Price Protection for Cellular Phones See store for details

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Your Computer Upgrade *SUPERMARKET!*™

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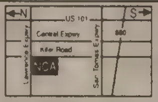

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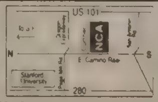

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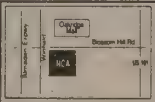

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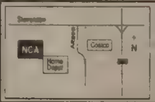

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M13

HIGH QUALITY COMPUTER PRODUCTS

IDEA FACTORY, INC.® NEW!

THE VIRUSTRAP™

THE MOST COMPREHENSIVE ANTI-VIRUS PRODUCT ON THE MARKET TODAY!

- Mc Afee Firmware on ISA card catches and eradicates BOOT viruses
- Mc Afee anti-virus software detects and eradicates file viruses
- NEW anti-stealth virus technology designed to prevent boot viruses
- PC adapter easy to install
- Loads prior to boot process, before viruses can overwrite boot files
- Warning visually and audibly alerts user as viruses are encountered
- Full-time protection cannot be unintentionally disabled by user
- User upgradable
- 5 year limited warranty

Can you afford to go unprotected? Can you afford to lose valuable data?

THE VIRUSTRAP
THE VIRUSTRAP

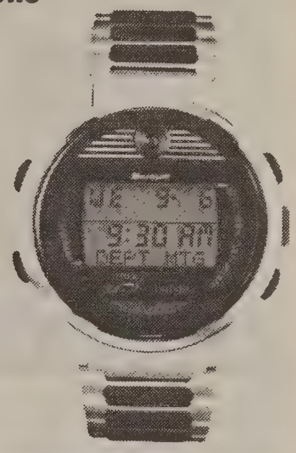
PROTECTED BY VIRUS McAFEE TESTED AND APPROVED

$99⁹⁵

Join The Timex and Microsoft Revolution

Wireless PC to Watch Communications

TIMEX DATA•LINK WATCH



A personal information manager on your wrist. Download information from your PC to the Timex Data Link watch. Select information from the Microsoft and Timex Data Link software, then simply point the watch at your PC monitor. The information, as flashing lines of light on your PC monitor, is read by the watch sensor. In seconds, up to 70 entries are loaded in the watch.

The Times Data Link watch features:

Appointments-Stores time, date, and message of appointments, and beeps to remind you before each one.

Phone Numbers-Shows name and phone numbers for quick and easy access.

Anniversaries-Reminds the watch owner of an event with a string tied-on-a-finger icon.

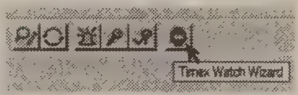
To-Do-Lists-Lists tasks in a memo log sorted by priority.

Time Settings-Sets watch time directly from a PC and allows users to keep track of a 2nd time zone.

Alarms-Presets up to five alarms a day, manually or by downloading from the PC.

TRADITIONAL WATCH FEATURES

- **INDIGLO** night-light with NIGHTMODE illuminates the entire watch display with a uniform bright light in low light conditions.
- Shows hours, minutes and seconds with 12/24 hour format option.
- Water resistant up to 100 meters.
- 3 year battery life.



MICROSOFT WINDOWS COMPATIBLE

$89⁹⁵

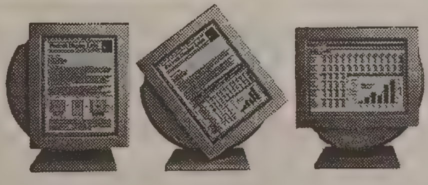
Black leather or silver bands!

PIVOT WITHOUT CLOSING APPLICATIONS!

Portrait/1700 For PC & MAC

Portrait Display Labs

17" SVGA Color PIVOT Monitor



- Pivots between portrait and landscape modes
- Allows full page document views-big 9.3" x 12.4" active display area
- .26 mm dot pitch, 76 Hz. refresh rate for crisp, flicker free images
- Up to 16 million colors, maximum 1280x1024 resolution
- Flat square CRT design
- Tilt & swivel base
- Energy Star and MPR II compliant
- Includes *MacPortrait*™ & *WinPortrait*™ video driver software and necessary cables

$939⁹⁵

Three Year Limited Warranty!

Verbatim

High Quality Magnetic Media

Double-sided/high density teflon-coated IBM formatted 3.5" disks / 10 pk.	$7⁹⁹
Double sided/high density Macintosh formatted 3.5" disks / 10 pk.	$7⁹⁹
230MB 3.5" optical disk	$31⁹⁹
8mm tape drive cleaning cartridge X112	$11⁹⁹
4mm tape drive cleaning cartridge	$7⁹⁹
8mm 112M computer grade data cartridge	$8⁹⁹
4mm 90M computer grade data cartridge	$7⁹⁹
120MB DC-2120 QIC-80 formatted minicartridge	$10⁹⁹
DC-2120 QIC-80 / 2 pk.	$20⁹⁹
MC3000XL 340MB cartridge	$19⁹⁹
160MB high density data 1/4" data cartridge	$13⁹⁹
CDR74 Recordable CD-ROM disc-74 Minute	$13⁹⁹

The largest selection of name brand media, at the lowest prices, guaranteed!

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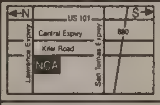

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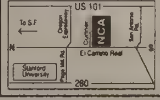

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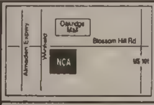

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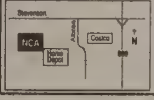

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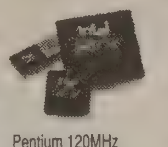
BOARDS, RAM, ETC.

CPU's, MEMORY & SIMMS

intel CPUs



486DX-33MHz
486DX2-50MHz
486DX2-66MHz
486DX4-100MHz
Pentium 60MHz
Pentium 66MHz
Pentium 75MHz
Pentium 90MHz
Pentium 100MHz
Pentium 120MHz
Pentium 133MHz

intel inside
pentium

AMD CPUs

AMD486DX2-66MHz
AMD486DX2-80MHz
AMD486DX4-100MHz

*LOW PRICE GUARANTEE**

IBM COMPATIBLE MEMORY

256X9	80ns	3Chip	$Call
1MBX9	80ns	3Chip	$Call
1MBX9	80ns	9Chip	$Call
1MBX9	70ns	3Chip	$Call
1MBX9	70ns	9Chip	$Call
1MBX9	60ns	3Chip	$Call
1MBX9	60ns	9Chip	$Call
4MBX9	80ns	9Chip	$Call
4MBX9	70ns	3Chip	$Call
4MBX9	70ns	5Chip	$Call
4MBX9	70ns	9Chip	$Call
4MBX9	60ns	9Chip	$Call
16MBX9	70ns	9Chip	$Call
EDO Memory			$Call

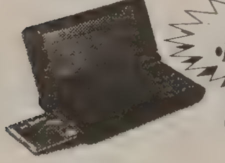
72-PIN MEMORY SIMMS

2MB 604-70ns/60ns	$Call
4MB 1X36-70ns/60ns	$Call
8MB 2X36-70ns/60ns	$Call
16MB 4X36 70ns/60ns	$Call
32MB 8X36 70ns/60ns	$Call

PCMCIA

FlashCard

PCMCIA Mass Storage For Mobile Computers



NEW •Lower Prices•

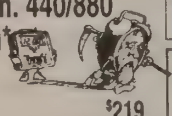
Seagate
SunDisk
The Solid Advantage

☐ HP 95LX
☐ GRiD Convertible 386/486

Kit Includes:
FlashCard, Communication Cable, Software Drivers

2.6MB FlashCard Kit	$259
5.2MB FlashCard Kit	$359
10.4MB FlashCard Kit	$469

☐ HP 100LX/OmniBook
☐ EO Personal Com. 440/880
☐ NCR 3170 Safari



FlashCard Only, No Software Needed
* Kit Includes FlashCard & Software

2.6MB FlashCard	$219
5.2MB FlashCard	$299
10.4MB FlashCard	$459
20MB FlashCard	$799

Macintosh Memory

1MBX8	80ns	2Chip	$Call
1MBX8	80ns	8Chip	$Call
1MBX8	70ns	2Chip	$Call
1MBX8	70ns	8Chip	$Call
4MBX8	80ns	8Chip	$Call
4MBX8	70ns	8Chip	$Call
4MBX8	60ns	8Chip	$Call
4MBX8	80ns	II-FX	$Call
16MBX8	70ns	8Chip	$Call

32-Bit Memory for Quadra 800, Centris, LCIII & Power PC's

2MB Module	$Call
4MB Module	$Call
8MB Module	$Call
16MB Module	$Call

MAC MEMORY INSTALLATION

Installation $15
(excluding Powerbooks)

POWERBOOK MEMORY

6MB Module (160/180)	$Call
8MB Module (160/180)	$Call
10MB Module (160/180)	$Call
6MB Modules (140/145/170)	$Call

LASER PRINTER MEMORY

HP Laser Jet 4 & 4M

0MB	$39
4MB	$Call
8MB	$Call

HP Laser Jet IIP, III, IIID, HP IIIsi

OTHER LASER PRINTERS
PANASONIC P4410/4430 Printers
Compaq Page MRQ Printers EPSON Action II Printers OKI 400 Printers & NEC Printers

CACHE MEMORY

32X8-20ns	$5.99
8X8-20ns	$Call
8X8-15ns	$Call
32X8-15ns	$Call
64X8-20ns	$Call
64X8-15ns	$Call

HEWLETT PACKARD

Laser Printers, DeskJets Pritners PRINTER ACCESSORIES:
TONER CARTRIDGES • TRAYS / FEEDERS
MEMORY MODULES

MOTHERBOARDS

mylex

Ultra Reliable, High Performance MotherBoards
CPU Sold seperately

MGI-486: 486VLB

2-VLB Slots,
256K Cache (up to 512K)
0MB up to 64MB RAM
Uses 30pin & 72pin SIMMS
Green PC, ZIF Socket,
SIS Chipset, Award BIOS

$119

MPXS-486: 486PCI

2 EIDE-I/O, 3 PCI slots,
5 ISA Slots, 256K Cache,
0MB up to 128MB RAM
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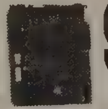

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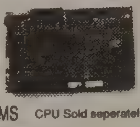

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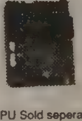

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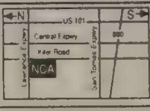

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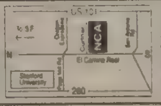

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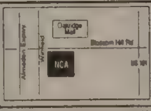

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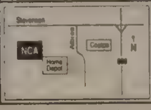

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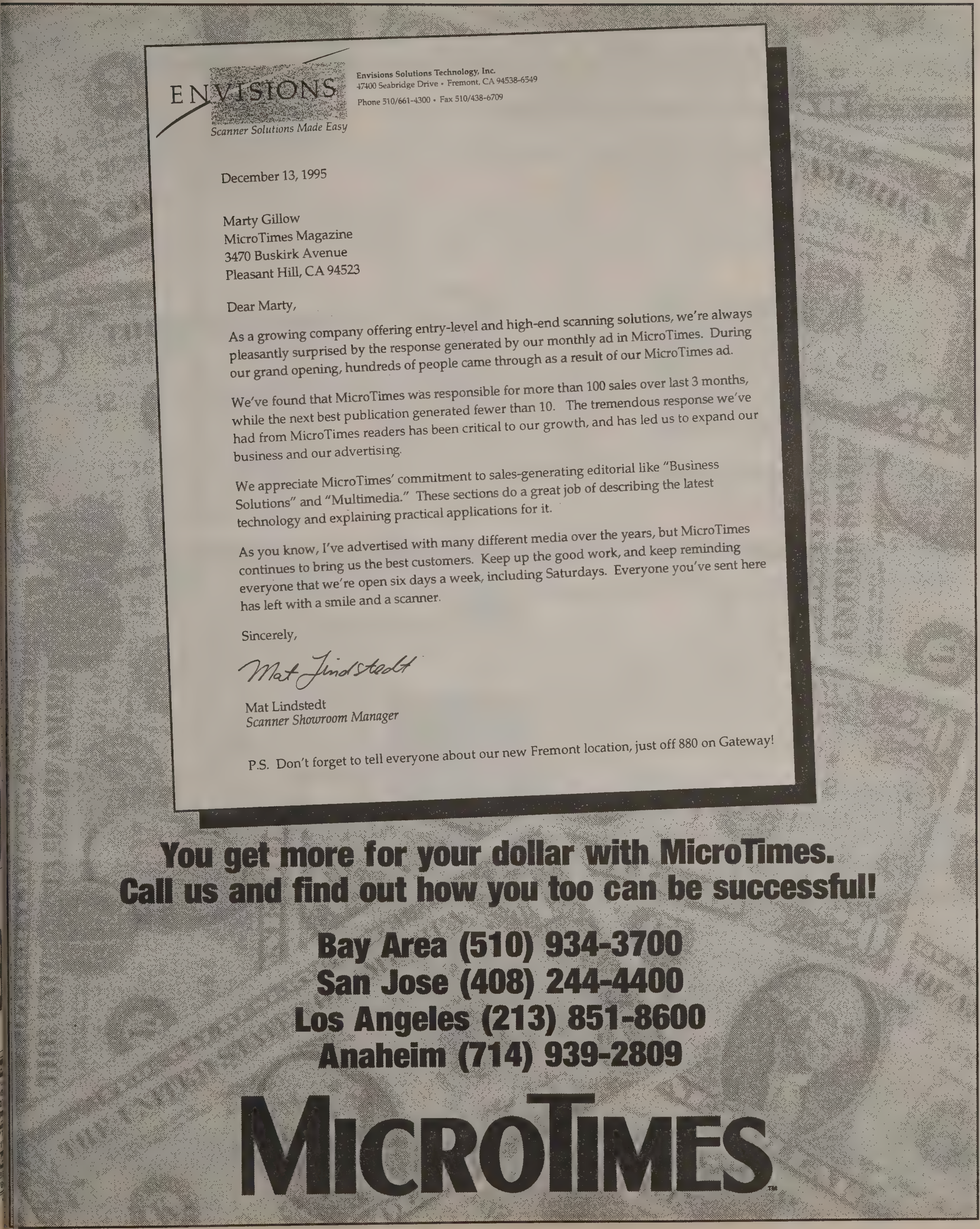

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December 13, 1995

Marty Gillow
MicroTimes Magazine
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Sincerely,

Mat Lindstedt

Mat Lindstedt
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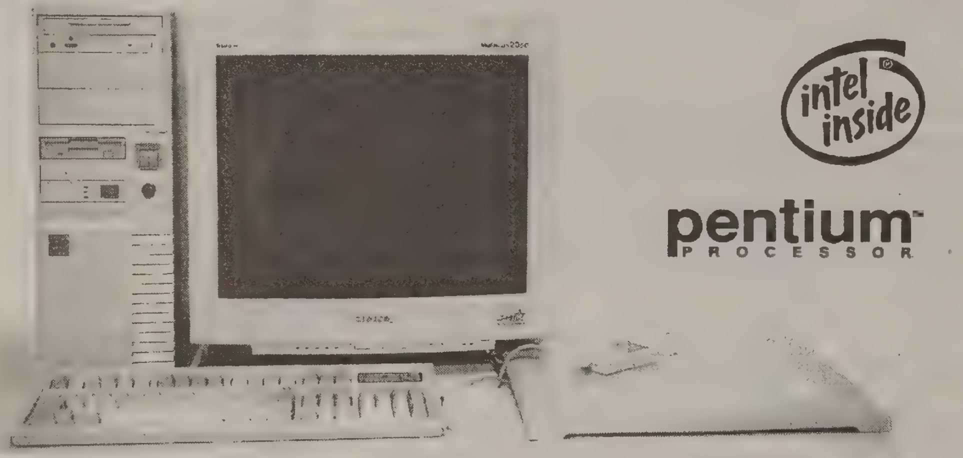

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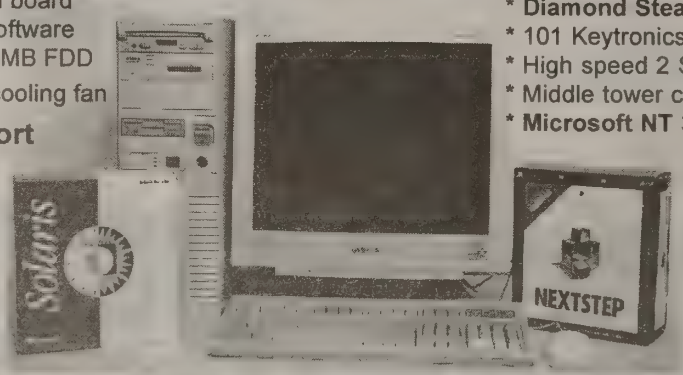

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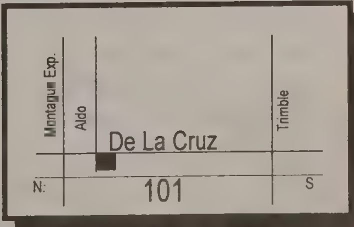

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MultiMedia & BEYOND

Gulch GOSSIP

by Jonathan E.

Things To Do, Places To Be

The Eighth Annual Digital Be-In is set to happen from 7 pm to 2 am on January 11 at the Transmission Theater (314 11th St.) and Paradise Lounge (next door) in San Francisco. **Allen Cohen**, an organizer of the original Be-In in 1967, and **Timothy Leary** will be there, both in-person and online, along with the music of **The Mermen, Haunted by Waters**, and diverse others including the **Earth Circus**. This year the Digital Be-In will also be a global event with a live, real-time "cybercast" on the World Wide Web. Some of the proceeds will be donated to the **Electronic Frontier Foundation**. Tickets are $15 in advance, $20 at the door, and are available from BASS ticket outlets, (510)762-BASS, at the Verbum Booth at the MacWorld Expo, or by calling (415)777-9901.

A certain gossip columnist may be one of the emcees. If that turns out to be the case, there'll be a door search for rotten vegetables…

Also on January 11, and also starting at 7 pm, and also at the Transmission Theater (at press time, the Be-In had been recently moved to the Transmission and the organizers were considering combining the two events), **Open Screens** returns for the fourth time. Looks like it might be one of those nights! This one will feature "awesome new CD-ROMs, videos, and much more." I got to the first one and it was a gas, definitely a happening event with a wide variety of digital and non-digital video work. I was especially amused by **Aaron Malmsheimer**'s animation of where Bill Gates went on a particular day. Not only was it viciously funny, it had a great and distinctive look despite problems with the dubbing process…

As we go to press, it's been confirmed that **Dub Syndicate** will appear for two nights, January 26 at the Great American Music Hall, 859 O'Farrell Street, San Francisco, and January 27 at Slim's, 333 11th Street, SF. If you ever wondered what **Maelcum** listened to on the tug *Marcus Garvey* in **William Gibson**'s *Neuromancer*, what the music of Zion sounds like, wonder no more. Dub Syndicate is among the originators of cyber-dub. You'll find recorded evidence of its genius in the reggae section of well-stocked record stores under its own name or in the On-U Sound section. To check up on the dates, browse your way to *http://www.musichallsf.com* …

Michael Naimark, once of the Apple Multimedia Lab and later the first artist-in-residence at Interval Research, has an exhibition of his latest work, **Be Now Here**, through March 3 at the Center for the Arts, Third and Mission in San Francisco. It sounds interactive, immersive, and virtual—so be there when you can. Naimark, along with other simultaneously exhibiting artists, **Jo Babcock** and **Ira Nowinski**, will discuss the exhibition on January 24 at 7 pm in the Media Screening Room at the Center. Of course there's a Web site for further info, *http://www.hia.com/hia/yerbabuena* .

Paint Your Bliss

Screen savers aren't really that old hat (see Screen Spacers item) if you create your own. How to do it? You use Bliss Paint, of course! **Greg Jalbert** is finishing up a Power Mac native version as I write, which will be available by MacWorld. Contact him at Imaja to get yours, via phone at (510)526-4621 or 1-800-294-6252. His Web site URL is *http://www.imaja.com* . Greg's also publishing an online magazine, *Change Magazine*, with art, poetry, prose, and environmental issues and news at *http://www.imaja.com/change* .

Bus Me To The Party

PARTIES ARE LIKE BUSES—AND I DON'T MEAN THE KIND YOU TECHNO-TYPES ARE MOST familiar with, I mean public transportation. They come in bunches (or batches for the truly technoid), and if you take the first one, you're unlikely to ride the later ones.

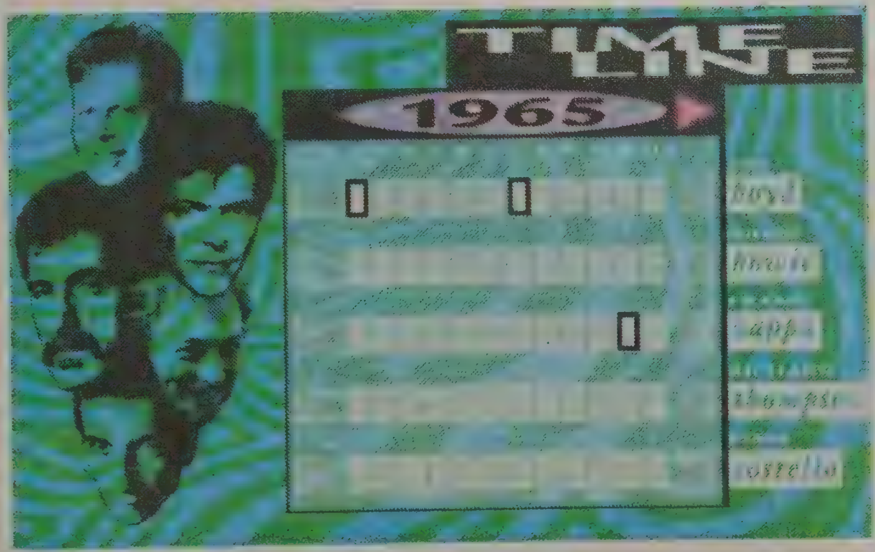
So it was in early December when **Rykodisc** unleashed its CD-ROM catalog with a party at Hotel Utah; **Haunted by Waters** celebrated its ***Like the Dust*** CD release at the Transmission Theater; **Pop Rocket** blasted us with **Total Distortion** at Rococo; **Anon Salon** salonized above the Icon; **Emergency Broadcast Network** along with **Banco De Gaia** transferred their musical versions of (un)reality to the audience at the Trocadero; not to mention a **DJ Cheb i Sabbah**-organized multitude of musicians paying totally uncyber tribute to the late **Don Cherry** at Ten15 Folsom, all over four nights.

Yup, you guessed it, your faithful correspondent's wetware, specifically his back and maybe his liver or kidneys, crashed halfway through this marathon. Faithful readers, are you beginning to discern a pattern here? Is the wetware becoming more unreliable—or is it just that life is becoming harder…er, I mean better?

It was nice of Rykodisc to host a party considering it's basically giving away its ***Surf This Disc*** CD-ROM for free. Okay, so it's a giant advertisement for the label and its five hundred releases, but it's a good advertisement. You get to cruise through Rykodisc's catalog in a variety of ways, by artist, genre, etc., with a sound sample of each release and some video clips. It looks really good and is an interesting case study in organizing material and providing various ways to get through it. If you like some particular music, the disc will suggest other releases you might like. There are a few ancillary delights, such as timeline histories of a few artists, and also a scavenger hunt with the prize being the entire Rykodisc catalog of releases. You can also, of course, buy direct via email or fax or print out a shopping list to take to your local store for "a more traditional shopping experience."

Rykodisc has always been a classy and innovative label with incredibly broad musical horizons, and *Surf This Disc* continues in that tradition. I recommend it without reservation. Just send your $3 for shipping and handling to Rykodisc, Dept. S1, 530 N. 3rd Street, Minneapolis, MN 55401. It's a Mac/Windows slut disc (as I recently heard hybrids called). If you can't wait for the mail to arrive, check out the Web site, *http://www.rykodisc.com*, where I believe there are some other interesting new-media audio things waiting for you to discover them.

Later that evening, Haunted by Waters presented a marathon multimedia performance of its version of music of the Archaic Revival to commemorate the release of a plain, old-fashioned Red Book audio CD, *Like the Dust*, on the X Dot 25 label. Earth Circus swung on trapezes and walked on stilts among the audience to boost the evening's 3-D immersive qualities. **Diana Maxwell**, manager of the Waters, pulled an amazing crew together for the evening, with **Maggie Hoppe** as stage manager, **Candice Pacheco** on the sound board, the **Stereo Stefans** (as I call them) G. and Franz of Positive Sound Massive (with a new album release of veteran Jamaican toaster, **Nicodemus**, just out on their own PSM label) running the lights and the video mix, **Greg Jalbert** and **Tim Perkis** creating live Bliss Paint animations, **Eric J. Gould** and **Linda Jacobson** shooting the live video feed, and **Mark Wlodarkiewicz** spinning a nice DJ mix.



Notables in the audience included **Bob Gelman**, **Michael Gosney**, **Abbe Don**, **Mark Petrakis**, and **Teri Danz**. All told, it was a fine, if somewhat exhausting, evening of neo-pagan ritual and music with a delightfully understated Celtic-cyber edge. Buy the album and/or catch Haunted by Waters at the Digital Be-In on January 11th (see the Be-In item for more details).

The next night Pop Rocket held its Mega Launch Party for Total Distortion. Great food, free drinks, some very drunk people, '70s disco and funk music, and a chance to win a Fender guitar, as well as **Joe Sparks** performing the

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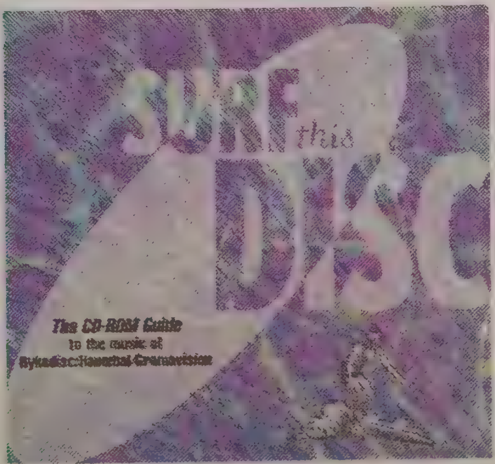
Visionaries—You Gotta Love 'Em

I HEARD A LOVELY STORY ABOUT MASAYOSHI SON'S introductory meeting with his new employees at the Ziff-Davis Publishing Co. He took them on a bus trip to his old high school, Serramonte in Daly City, and then laid out his, dig this, three-hundred-year plan!

When I hear of this sort of visionary dementia my first impulse is to think back to an equivalent time period. So what was going on in 1695 and what institutions from then are thriving today? What new institutions have emerged? Then I like to switch a couple of digits, in this case making it 1965, and ask the same questions.

Son's plans include publishing one thousand titles and being "bigger than Kellogg's." Snap, crackle, pop! On the other hand, he has a lot of money and I don't.


SURF this DISC
The CD-ROM Guide to the music of Rykodisc:Hannibal:Gramavision

MULTIMEDIA 101

Sound Off

Sound Advice

When I last bought a home amp, the salesmen at every store I went to told me that Yamaha's electronics are better than competing brands. When I last bought speakers for my car, my own ears picked out Yamaha speakers. So I'm not tremendously surprised that the Yamaha YST-SS1010 three-piece self-powered speaker system, now beaming sound from my computer to my ears, sounds better than pretty good. Yamaha makes the speaker cones out of pure spruce shavings from grand pianos! Funny, they don't sound like a piano to me unless I'm listening to Professor Longhair, Abdullah Ibrahim, or some other hep cat tickling the eighty-eights.

By now everyone must know that the Mac's built-in mini-speakers are barely adequate even for the system beep. The truth is that monitor-based speakers aren't up to much beyond speech. The even uglier truth is that you have to be already quite shaky to really be moved by the little Apple external speakers. As a matter of taste, confession, or already damaged hearing, I find even the headphone jack out of the Apple CD-ROM drive to be lacking; it needs more than a tad more oomph (and yes, I'm using good headphones).

So, to induce a truly groovy sonic experience out of your computer system, you need something more. This Yamaha speaker system easily does the job. Once you've twiddled with the little knobs on the front—you don't even have to turn them all the way clockwise—and made the personally correct musical selection, you can quite easily bob your head over the keyboard. You could even crank everything up so high that you'll damage your hearing further and, depending on your personal acoustic surroundings and the temper of your close neighbors, you might even be able to get evicted.

> SOME CYNICS CLAIM THAT THE REAL STRATEGY OF THE RECORD LABELS IS TO RAISE THE LIST PRICE OF CDs BY $5 OR SO TO PAY FOR THE "ENHANCEMENTS." THIS I CAN BELIEVE.

Yup, life can be tough at the intersection of cyberspace and the real musical world!

My advice if you have these kinds of problems? Move entirely into cyberspace and dump the wetware. Then you'll no longer need any speakers for the aural pleasure of your antiquated wetware hearing devices. It would all be done in software—but think of what a bug or a virus might mean under those circumstances! Perhaps I'll stick with the Yamahas for now.

YAMAHA'S SYSTEM

What you get with the YST-SS1010 system is the YST-MSW10 subwoofer with 25 watts of power and response down to 35Hz. Okay, so it sounds a bit throaty at high volume handling the awesomely heavy dub bass of an act like Alpha & Omega who really push the bottom end—but it's adequate for more reasonable demands and will easily vibrate your desktop.

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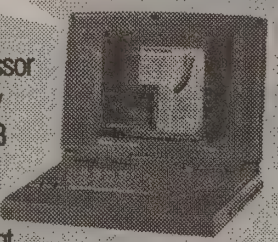

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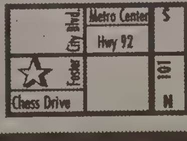

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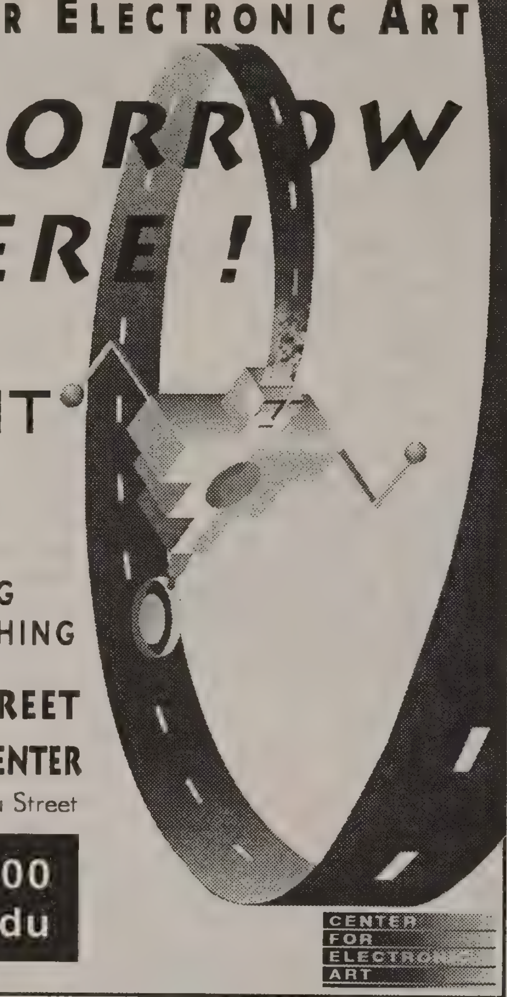

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MULTIMEDIA 101 *continued...*

and a frequency range of 80Hz to 20kHz.

Yamaha also has the YST-M5 speakers with more modest specifications—let your own ears or wallet determine which you really want.

According to the PR agency, about 50% of the journalists who've tested the YST-SS1010 system elect to buy their evaluation units. I'm buying mine. I've seen an ad in this very magazine offering the YST-MSW10 subwoofer for $139.99, the YST-M10s for $59.99 a pair, and the YST-M5s for $27.99. I say splurge and spend the $200, especially if you listen to regular audio CDs on your CD-ROM drive. You just don't ge that vital richness of the bass without the subwoofer.

But I would be remiss not to warn you of three drawbacks to this speaker system. Firstly (and this is not Yamaha's fault), the digita audio on a lot of CD-ROMs is pretty lousy. You're now going to hea the crackly hiss of quantization, the abrupt level changes of badly engineered recording, and the pops and blips of poor sound editing Get these speakers and you'll soon be demanding that sound no longer be treated as "the orphan child of multimedia," to quote a certain Mr. Canter.

Secondly (now we get to take it out of Yamaha's hide), the little control knobs on the front of the speakers are too small, smooth, and insubstantial-feeling. This is a common problem with compact speaker systems, but I'd sure like bigger, knurled knobs that don't jiggle in their sockets.

Lastly (and here Yamaha really fell down), there is only one line-leve input to the system, unlike, say, the Apple speakers. There is a speaker-level input if you want to hook up an amplifier, but you can't run digita sound from your computer and Red Book audio from your CD withou switching the jacks or using headphones or the computer speakers fo one or the other.

One thing you're going to want to do with Enhanced CDs (if you want to do anything with them—see my take on them below) is switch between digital and Red Book sound quite frequently. Apparently Yamaha has already figured this out and at some time in the future wil offer a new line of speakers with two inputs, but in the meantime if you want the Yamaha sound, you'll have to jack into the single input.

SOUND REASONING?

The hype is rolling down the pike about the supposedly fabulous Enhanced CDs and CD Pluses, with the ridiculous claim that they'l restore the fabled lost art of the LP sleeve. Consider this an antidote and take as often as needed.

Previously I've espoused the music industry as a possible champio of multimedia for the mass market, taking it beyond a computer product to become a real pop cultural phenomenon. However, this first step seems to me to be a false step. There are economic and artistic considerations, as well as the ways people use music, that make audio CDs with an additional data track unlikely to fly without a crash landing.

The first thing that sticks in my craw is the ridiculous claim tha Enhanced CDs will revive the glory days of album art. It's an utterly ahistorical myth that the advent of CDs caused the diminishment o the extravagant packaging of LPs. In fact, it's severely chronic tempora displacement; the two events were asynchronous by at least five years.

The real reason flashy album sleeves became extinct was economic

continued on page 28

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Intel 486DX4-100MHz $1089

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- Logitech Mouseman
- 14" Proton 1024x768, .28 SVGA Non-Int Full Screen Monitor w/72Hz Refresh Rate
- CPU Cooling Fan
- 7 Year Labor Warranty, 1 Year Parts Warranty

PS 486 VESA 256K
4MB, 850MB, SVGA NI

Intel 486DX4-100MHz $909

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- 2 Serial, 1 Parallel, and 1 Game Ports
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- 101 Mitsumi Enhanced Keyboard
- Logitech Dexxa or Mitsumi Mouse
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- CPU Cooling Fan
- 7 Year Labor Warranty, 1 Year Parts Warranty

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Sound Blaster 16 Sound Card
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Sound Blaster 16 Vibra SCSI	115
Sound Blaster AWE32	169

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14,400 Fax Modem w/Voice	59
28,800 Modem/14,400 Fax w/V.34	119
28,800 Modem/14,400 Fax w/V.34, ext	149

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Full Tower w/300W	119
Super Tower w/300W 2/Fans	169
Desktop Case w/230W	45
230W PS	29
300W PS	69
IDE/SCSI HD Removable Kit	35/36

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Logitech Mouseman (PS2)	49
Logitech Mouseman Serial	35
Logitech Dexxa Serial	15
Mitsumi Mouse	12

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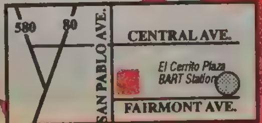

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Video Toaster Expo '95

New Machines Ship; PowerPC Move Announced; Lots Of Cool Stuff Debuts

AMIGA Technologies made its first official US appearance at the 1995 Video Toaster Expo held at the Universal City Hilton, November 2–4, sponsored by *Video Toaster User* magazine. Yes, ladies and gentlemen, I have actually seen and touched brand spankin' new Amigas that were not manufactured by Commodore.

AMIGA TECHNOLOGIES

Hundreds of attendees filled the ballroom to hear a keynote speech by AMIGA Technologies President and CEO Petro Tyschtschenko (pronounced "ta-SHEN-ko"). This was the most excited I've been about the Amiga in a long time.

With a thick German accent but perfect English, Mr. Tyschtschenko provided some background information on ESCOM, AMIGA Technologies, and the acquisition of the Amiga technology. He proudly held one of the first A1200 motherboards encased in Lucite over his head. A few moments later he unveiled their first Amiga 4000T, born just three days earlier.

Petro indicated that twenty thousand A1200s had already been sold in Europe and there were back orders for sixty thousand more! The European multimedia company Scala has already pre-ordered one thousand A4000Ts; however, the bulk of the A4000T production has been earmarked for US distribution.

WHICH RISC

Stalling just a bit to build the excitement, Petro calmly announced the move from the 680xx family of processors to the Motorola PowerPC (604). He dubbed this the "Power Amiga," joking that the "PC" was removed for aesthetic reasons. He also indicated that they are negotiating strategic alliances with Apple Computer, Motorola, and IBM for the Power Amiga project.

"Long-awaited features like memory

According to Tyschtschenko, "The market in the USA is very important for us. I want to make a commitment here."

Left: AMIGA Technologies' President and CEO Petro Tyschtschenko; right: *Video Toaster User* magazine Editor-in-Chief Tom Patrick McAuliffe

BY DOUGLAS J. NAKAKIHARA

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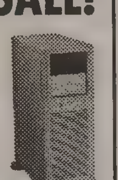

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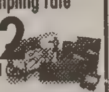

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586 Pentium 75/256 PCI/VLB	$1019
586 Pentium 90/256 PCI/VLB	$1099
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Pentium 120/133	$336/515
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16M 4x32 70/60ns	$439/459
16M 4x36 70/60ns	$489/509

- CPU and memory related products are not exchangeable or refundable
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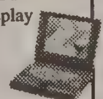

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Teac 1.2MB & Teac 1.44MB Bundled	$71
TEAC Dual (Combo) Drive	$84
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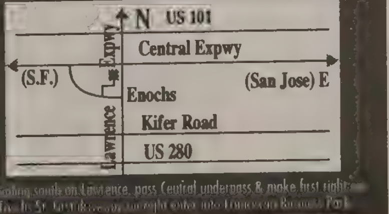


Heading south on Lawrence, pass Central underpass & make first right
[illegible]

protection, virtual memory, and strong network abilities are on top of our to-do list," remarked Tyschtschenko. "The next version of Amiga DOS will include all these important things."

TRIBUTE TO JAY MINER

NewTek President Tim Jenison followed Tyschtschenko with an emotional tribute to the late Jay Miner, the father of the Amiga. Jenison paused many times to collect himself during his speech. Needless to say, he was happy to see the Amiga in production again.

RETURN VISIT WITH PETRO

Later, I was lucky enough to spend a few moments with Mr. Tyschtschenko. I was happy to find an excited and passionate man who really understands the Amiga's potential. Regarding the Power Amiga, Petro told me he hopes to have 100% backwards compatibility with existing software and hardware. He suggested that one option may be to have a 680xx CPU with some form of the current Amiga custom chipset built right into the Power Amiga.

He also stated that he will do everything he can to have the next-generation Amigas ready by December 1996. However, a press release issued a few days after the show indicated they would not be available until the first quarter of 1997. The great news is that the German company Phase V will offer an upgrade path for A1200, A3000, and A4000 owners before the end of 1996. The release also stated that the company's goal is to make the AmigaOS hardware independent to allow further ports to other platforms.

AMIGA also announced plans for faster A1200s with greater memory expansion capacity and a CD ROM.

US MARKET

Service Management Group, Inc. (SMG) will be the exclusive North American distributor. This is the same company that previously handled Commodore's service and repairs. There was no specific information on US marketing plans; however, according to Tyschtschenko, "The market in the USA is very important for us. I want to make a commitment here. We do not intend to concentrate our efforts only on Europe. Our location [is] in Bensheim, granted, but our market is worldwide."

A4000T

The A4000T is similar to the Commodore A4000, but has some distinct differences. It has a Fast SCSI-2 controller (in addition to IDE), more hard drive bays, five Zorro II/III slots, two video slots, and a larger power supply. It will also ship with either a 540MB or 1GB hard drive. The initial CPU will be a 25MHz '040, but an '060 option will be available in the first quarter of 1996. Orders are already being taken from several dealers for around $2700.

This is a dream machine for current or prospective Flyer owners. NewTek reported that the A4000T they received booted and ran the Toaster/Flyer the first time they installed it!

SHOW EXHIBITORS

Although I didn't get a chance to spend a lot of time on the floor, here is a rundown of some of the interesting products I saw at the show.

NewTek, of course, was there in full force with a gigantic booth. It showed off LightWave 3D 4.0 and the new Toaster/Flyer software, as well as the Video Toaster for Windows, a standalone future home for the Flyer. It also demonstrated some cool stuff for LightWave including a real-time shaded preview using OpenGL.

TUNING IN

Lori Dekker of AirWorks Media gave me a demonstration of TuneBuilder. This cool product creates custom-length music using stock CD-ROM music libraries. Say you needed background music for your 30-second commercial—TuneBuilder can create one or more 30-second "songs" based on a style you select.

In many respects this reminded me of the audio-sample programming capabilities of Oxxi's AudioMaster IV, except with a much richer implementation. TuneBuilder-compatible CD-audio songs have been broken down into basic "song-components" and cataloged. The software can then intelligently piece together an arrangement to a specified length, repeating sections where necessary. You can manually piece together a song as well. It's a marvelous piece of work. You can also directly save the audio in a variety of digital audio file formats, including AIFF, so there is no D-A-D quality loss.

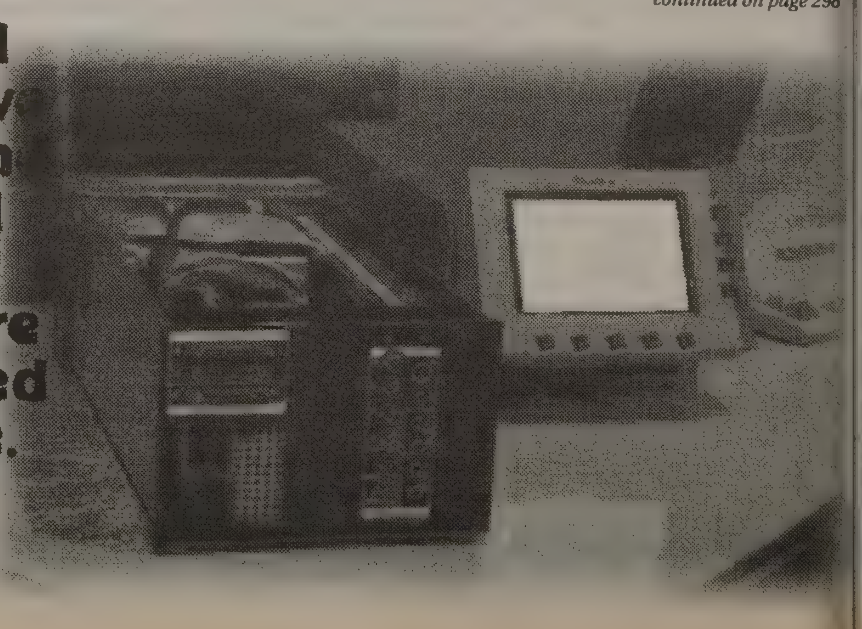
A growing list of music library providers supports TuneBuilder, including Killer Tracks, which was also at the show.

LIGHTWAVE GOODIES

Dynamic Realities demonstrated its product, IMPACT! This impressive piece of software allows you to easily incorporate collision

continued on page 298

Yes, ladies and gentlemen, I have actually seen and touched brand spankin' new Amigas that were not manufactured by Commodore.



Toaster for Windows prototype

4X CD-ROM Multimedia Kit
$229
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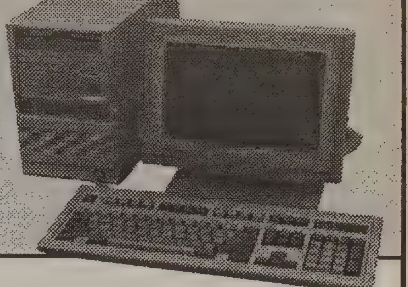
COMTEK Computer



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- MS DOS 6.22 & Windows 3.11
- Mouse & Mouse Pad

DX4-100.........$869
DX4-120.........$889

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- 486 Motherboard w/256K Cache
- 8MB RAM
- 540MB Hard Drive
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- SVGA Video Card w/1MB, VL Bus
- 16 Bit Sound Card
- Stereo Speakers
- IDE VL Bus with I/O
- Medium Tower Case
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- MS DOS 6.22 & Windows 3.11
- Mouse & Mouse Pad

DX4-100.......$1279
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- 1.44 Floppy Drive
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- PCI SVGA Video Card w/1MB
- PCI Controller with I/O
- Medium Tower Case
- Enhanced 101 Keyboard
- Mouse & Mouse Pad

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- PCI Controller with I/O
- Medium Tower Case
- Enhanced 101 Keyboard
- Mouse & Mouse Pad

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Sun's High-Octane Java

Twice The Caffeine For Online Multimedia

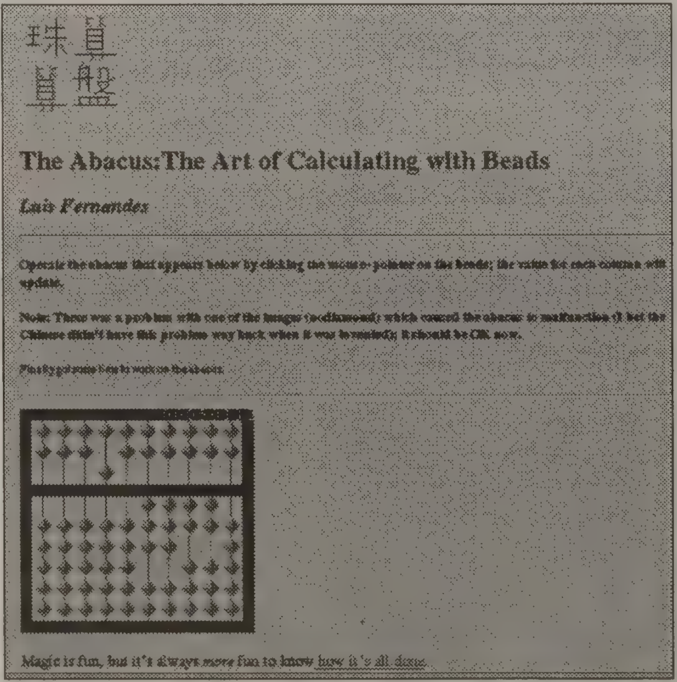
BY TONY REVEAUX

That the Internet is growing, snowballing, and exploding is no longer news. The number of net sites reportedly doubles every fifty-three days. The Internet is even hitting the mainstream as print and broadcast media list URL (Uniform Resource Locator) addresses of movie promotions, auto manufacturers, food products, and book publishers.

But even more interesting and exciting dynamics will continue to transform the way our society communicates. Within the next four months or so, the World Wide Web (WWW) will undergo yet another major phase of evolution. From interesting but static graphics and downloadable sound and movie files, the pages of the net will deliver full multimedia, depths of navigation, and increasing ranges of interactivity.

And here's another thing that's happened along the curves of the Information Superhighway. Interactive television (ITV), long touted to be the bright window to the future, has been relegated to the rest stop for now. Many companies, such as Sun Microsystems and SGI, have put their ITV plans on hold and have reassigned many people from those teams to work on Virtual Reality Modeling Language (VRML) and other Internet applications.

The consensus seems to be that it will take from three to ten years before ITV is practical and profitable. Blame it all on bandwidth—or the lack of it. Broadcasters and cable consortiums will continue to tussle with expensive but futile trials and model demos, but they are as much or more concerned with jousting for rights, licenses and territories as with winning a workable technology.



珠算
算盤

The Abacus:The Art of Calculating with Beads

Luis Fernandes

Operate the abacus that appears below by clicking the mouse-pointer on the beads; the value for each column will update.

Note: There was a problem with one of the images (ocdiamond) which caused the abacus to malfunction (I bet the Chinese didn't have this problem way back when it was invented); it should be OK now.

[illegible]

Magic is fun, but it's always *more* fun to know how it's all done.

TOOLS FOR THE INTERNET TRADEWINDS

Netscape 2.0, MacroMedia's Shockwave, and VRML articulated by Silicon Graphics and others, are setting the modem wheels in motion. Sun's Java is one of the most versatile and promising solutions to interactive multimedia on the net combined with data integrity and security.

Java started as Oak, a powerful and intriguing prototype for deliverable ITV, created by James Gosling. With Whitfield Diffie and Bill Joy, that acorn of an idea found a second life as Java, which has grown from an Internet protocol for interactivity to a solution for executable content on the net to, more recently, a programming environment. Strictly speaking, Java

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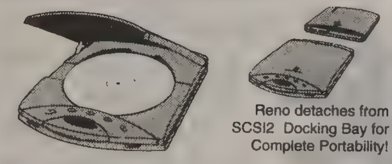
Reno detaches from SCSI2 Docking Bay for Complete Portability!

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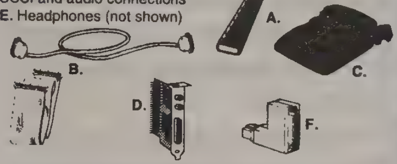
C. Padded Travel Pouch
D. Internal SCSI IDS50 to DB25 Adapter bracket for IBM, use with Reno cable kit (above) & your SCSI card for convenient SCSI and audio connections
E. Headphones (not shown)



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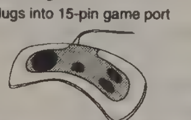

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- Use with CS-550 speakers below for great sound combo!

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Multimedia Speakers

- Two styles to choose from, both new in box
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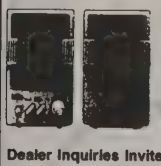
- Econo-import model MSS-1000 has:
  - Volume control, Bass boost switch
  - Uses 3 C-cells per side, measures 3.5" x 3.5" x 5"
- CS-550 by Labtec (pictured below) has:
  - Volume control, Bass boost switch, Treble-boost switch, measures 4" x 4" x 6"
  - CS-550 has 40 - 16000 Hz freq. response, 3" speakers, and power light.
  - 4 watt amplifiers (uses 2 C-cells per side)
- Both feature magnetically shielded enclosures, "enhanced bass-response cabinet design", and attractive beige styling.



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- 90-day warranty
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- Mountain Network Solutions **CD7** Changer
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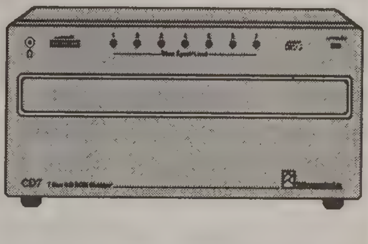
  - Access time avg. 300 KBps (sustained double speed), 1500 KBps (burst)
  - Occupies one SCSI address, appears as seven logical drives to system. Perfect for BBS's!



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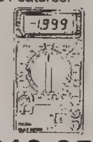

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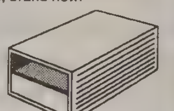

HSC# 15715 5.25" SCSI Drive Case **$39.95**

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- Low-profile case for 5.25" drives
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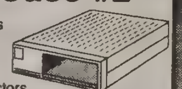

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C	5VDC @ 700mA, 12VDC @ 500mA	5p. DIN/M	15532	$4.95
A	5VDC @ 750mA, ±12VDC @ 500mA, 150mA	5p. DIN/M	12634	$14.95
C	5VDC @ 3A (IEC Cord not included)	4p. DIN/F	14996	$5.95
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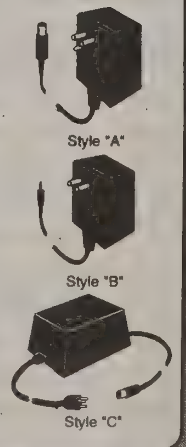

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SUN'S HIGH-OCTANE JAVA *continued...*

is the name of the programming language developed by Sun Microsystems that is used to create executable content that can be delivered through networks.

Executable content refers to interactive media content that can be accessed, modified, changed, and distributed. As a Web user, you don't stir Java directly so much as you activate it within a Java-enabled Web browser like Netscape 2.0. Through a Java-enabled browser, it's as if you can step into the window and do things with what's in there, and bring more things into it if you need to.

ACTION ON DEMAND

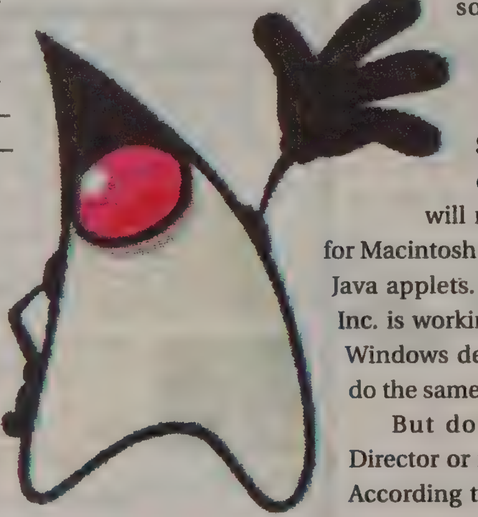
What's going on here? The best model that comes to mind is the Just-In-Time (JIT) manufacturing system perfected by the Japanese. Instead of investing in warehousing mountains of parts and materials at the factory, delivery is effected on a what-you-need, when-you-need-it basis. When you poke Java in a place where, let's say, the character is supposed to jump up and wave a flag, your browser does not warehouse a jump behavior attribute and a flag animation loop, along with the thousands of other possible multimedia parts that could be implemented on the Web. You would have to live on top of a 10GB hard drive.

So what Java does is instantly send a parts order back to the server of that site, which, faster than a flying pizza, sends an applet—"little application," if you will—to your browser, which scarfs it down in a mouse click. Within that particular, customized applet is the jump, the flag, *and* the bugle call.

Are you now saddled with babysitting this applet action forever? Java has garbage collection and cache cleaning routines that, in various strategies, can either leave it resident for a site that you will use often, keep it just until you leave that site, or invest it as a one-time-only event. Also, pages, windows, and data can be updated continuously.

CAFFEINATING THE WEB

HotJava is Sun's standalone Web browser that is designed to receive and display Java content to the best advantage. It uses dynamic linking to be very extensible. HotJava is free for nonprofit use in a downloadable version available over the net at Sun's site at *http://java.sun.com/* . At present, HotJava can be read on Sun Solaris 2.3, 2.4, and 2.5 SPARC-based machines; Intel x86 machines with Windows NT 3.5. Amiga, NeXT, and Linux ports are on the horizon. The Win95 beta should be here about now, and the Mac beta is slated for early 1996.



One of the most profound capabilities of Java is its platform independence. If that seems to contradict the above statement of HotJava's current limitations, remember: the browser—no matter where it comes from—must be Java-enabled. And that takes time to develop for all the resident platforms. But the information coming down through the pipes, the applets, are written in Java code that renders them platform-transparent without the need to recompile. And secure. The motto is: "Write once, run anywhere." And broadcast capability: "Publish once, reach millions." Java reifies, protects, and advances the spirit of the Internet.

Java reifies, protects, and advances the spirit of the Internet.

C++ WITHOUT GUNS, KNIVES, OR CLUBS

As a programming language, Java is described by its authors as, "C++ without guns, knives, or clubs." They see the venerable but complicated C++ as meaning "creaky-too-much!" Java is an architecture-neutral, object-oriented language that is extensible: it can learn new protocols on the fly. Its other advantages include automatic storage management (garbage collection), strong typing, array bounds checking, and strong checking of exceptions.

Compared to C++, Java is reported to be a simple language that is easy to read and write. Nothing in Java is "undefined," and it compiles to "byte codes" that are implemented in the software and that can generate native code while checking safety. Its applets can exist within multiple environments. All this contributes to its networkable portability.

The Java Development Kit includes compiler, debugger, interpreter, applet viewer, and class libraries. There is no cost to download this from the Sun site. If you are a commercial developer and want to license Java's source code, the fee is $125,000 up front and then $2 a copy.

In cooperation with Sun, Metrowerks Inc. is developing tools that will make it relatively easy for Macintosh programmers to create Java applets. Borland International Inc. is working with Sun to provide Windows developers with tools to do the same.

But don't throw away your Director or mTropolis app just yet. According to Terry R. Schussler of Gray Matter Design, Java is optimized for the net, but it has a long way to go to develop the complete infrastructure of an authoring environment to produce all the kinds of interactive desktop multimedia in use.

The New Order of Computing as seen by George Gilder: "Your computer will never be the same... No longer will the programs in your machine determine the functions you can perform. The network is the computer. The computer becomes a peripheral to the Internet and the Web."

BOOK APPLETS

Hot and steaming off the press (typos be damned!) is John December's *Presenting Java: An Introduction to Java and HotJava* (Sams.net Publishing, 207 pp., $25). December will bring you right up-to-date on the forms, definitions, and applications for all this new netjuice, and he does it in a crisp, clear way that lets you get

continued on page 329

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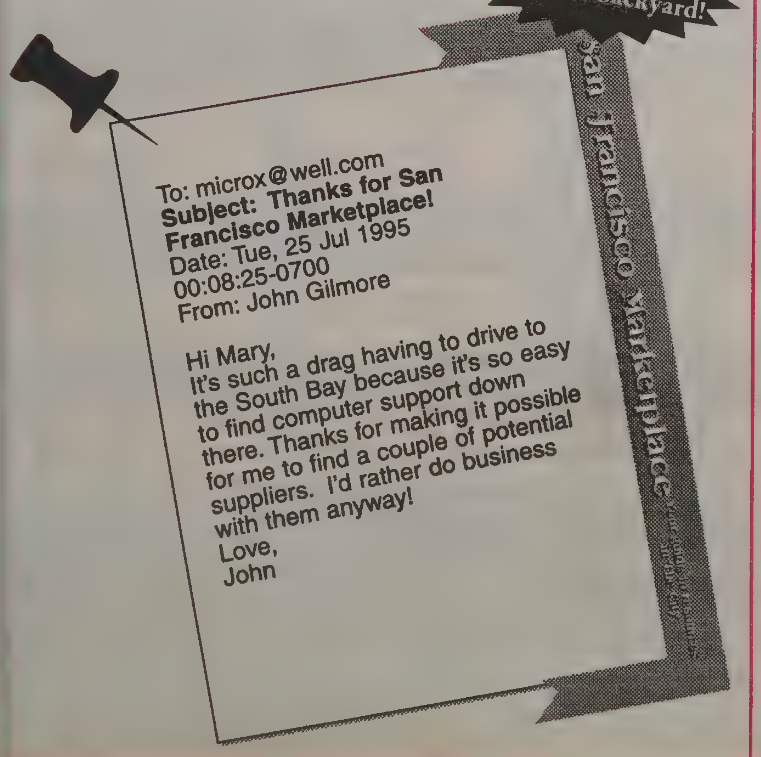

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Subject: Thanks for San Francisco Marketplace!
Date: Tue, 25 Jul 1995 00:08:25-0700
From: John Gilmore

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- 10.4" Dual Scan Color
- 14.4 Fax Modem
- 16 Bit Sound Card
- 3 Year Warranty

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IBM ThinkPad 701C

- Intel DX4-75MHz
- 8MB RAM
- 360MB Hard Drive
- 2 PCMCIA Slots
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- Built-in 14.4 Fax Modem
- 16 Bit Sound Card
- 3 Year Warranty

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- Intel DX4-75MHz
- 8MB RAM
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- Built-in Touch Pad Pointing Device
- Windows '95 Pre-Installed
- 2x CD ROM

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TI Extensa 550CDT

- Intel Pentium® 75MHz
- 8MB RAM Standard
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- Built-in Touch Pad Pointing Device
- Windows '95 Pre-Installed
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- Intel Pentium® 90MHz Processor
- 8MB RAM Standard
- 810MB Hard Drive
- Removable Hard Drive
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- Built-in Stereo Sound
- Built-in Tracking Device
- Long-life Lithium Ion Battery

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NEC Versa 4000

- Intel Pentium® 75MHz Processor
- 8MB RAM Standard
- 540MB Hard Drive
- Removable Hard Drive
- 10.4" STN Color
- 1.44 Floppy Drive
- Built-in Stereo Sound
- Built-in Tracking Device
- Long-life Lithium Ion Battery

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NEC Versa 4000

- Intel Pentium® 75MHz Processor
- 8MB RAM Standard
- 540MB Hard Drive
- Removable Hard Drive
- 10.4" STN Color
- 1.44 Floppy Drive
- Built-in Stereo Sound
- Built-in Tracking Device
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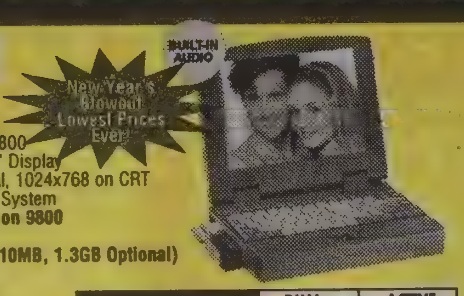
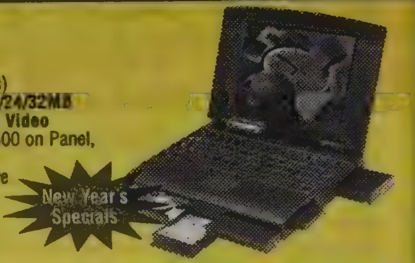


Specifications:
- Genuine Intel CPU Processor
- 128K Cache on 9400; 256K Cache on 9800
- 32 Bit VESA Local Bus Video with 10/3" Display
- 1MB Video RAM with 640x480 on Panal, 1024x768 on CRT
- 16 Bit Sound Blaster Compatible Audio System
- **Built-in 4MB RAM on 9400; 8MB Ram on 9800**
- 1.44MB High Density Floppy Drive
- **Removable 540MB Hard Disk Drive (810MB, 1.3GB Optional)**
- PCMCIA Slots (2 Type II or 1 Type III)
- Built-in 25mm Front-Centered Trackball
- Dual NiMH Battery with Hot Swap & 2 Hr Quick Charge
- Ports for Hi-Speed Ser, EPP, Ext CRT, Keyboard/Mouse & VLB Docking Station
- AC/DC Adapter, Carrying Case
- Weight: 6.6lbs; 11.4x8.6"x1.9"

NEW LOW PRICES	DUAL SCAN	ACTIVE MATRIX
9400 - 486DX2-66	$1665	$1990
9400 - 486DX4-100	$1695	$2020
9800 - Pentium 75MHz	$2123	$2505
9800 - Pentium 90MHz	$2213	$2595
9800 - Pentium 100MHz	$2278	$2660

Chembook 5400



- Genuine Intel Pentium CPU Processor (all models)
- **256K L1 & L2 RAM, 8MB DIMM RAM Exp. to 16/24/32MB**
- **32-Bit PCI Local Bus Controller with 2MB VRAM Video**
- 11.3" Dual Scan or 10.3" Active Color with 800x600 on Panel, 1280x1024 on CRT
- 1.44 MB Floppy Drive; 540MB Removable Hard Drive (810/1.3GB optional)
- PCMCIA Slots (2 Type II or 1 Type III)
- **Built-In Glide Point (PS/2); Built-In Joystick**
- 16-Bit Sound Blaster Compatible Sound System, with Built-In Speaker, Mic, Line-In/Out
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Pentium-90MHz	$2755	$3095
Pentium-100MHz	$2820	$3160
Pentium-120MHz	$2920	$3260
Pentium-133MHz	$3120	$3460

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Patriot
4000

Specifications:
- Genuine Intel 486 or Cyrix Pentium CPU Processor
- **4MB RAM (8MB, 16MB, 20MB or 32MB Optional)**
- 32 Bit Local Bus Windows Accelerator
- 1MB RAM Supports 1024x768 at 256 Colors
- 10.4" Dual Scan 640x480, 0.3mm, 256 Colors
- 10.4" Active 640x480, 0.3mm, 64,000 Colors
- External CRT 1024x768Ni, 256 Colors
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- One Modular, 86-Key Reverse T Keyboard
- Touch-Sensitive Trackpad
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- Built-in Speaker and Microphone
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- 1x 25 Pin Parallel Port (EPP/ECP)
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BEST VALUE	10.4" Dual Scan	10.4" Active
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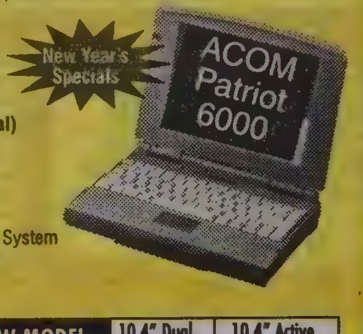

Specifications:
- Genuine Intel 486 or Cyrix Pentium CPU Processor
- 256KB Cache Memory on Board
- **8MB RAM (16MB, 24MB, 32MB Optional)**
- 32 Bit Local Bus with 1MB Video RAM
- Dual Scan 10.4" (11.3" Option), Active 10.4 TFT
- **Removable 540MB IDE HDD (810MB, 1.3GB Optional)**
- 3.5" 1.44MB Removable Floppy Drive
- 2 Type II Slots or 1 Type III PCMCIA Slots
- 86-Key Keyboard, Inverted "T" Curser
- Built-in Touch-Sensitive Trackpad
- Built-in Speakers and Microphone
- Built-in 16-Bit Audio Compatible SB 16 & Win Sound System
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- MIDI/Joystick Port (RCA Composite Video Port
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- DOS 6.22
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- **CD ROM Drive 5.25" 2X Enhanced IDE Interface**

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- Intel Endeavor Triton Chipset w/256K Pipeline Burst Cache
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- GVC 1448B 14" NI .28dp Green Monitor
- Acer AV52T 101 Enhanced Keyboard
- Microsoft V2.0 Serial Mouse w/Pad
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- **Creative Labs Sound Blaster 16 Vibra Sound Card**
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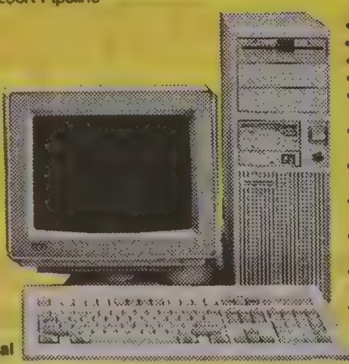

Professional Pentium Station

- Intel Zappa Triton Chipset w/256K Write Back Cache
- Intel Pentium™ Processor
- 8MB 72-pin RAM up to 128MB Simm
- Western Digital 312OOA 1.2GB 10ms
- Teac 1.44MB Floppy Drive
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- Acer AV52T 101 Enhanced Keyboard
- Microsoft V2.0 Serial Mouse w/Pad
- Deluxe Super Mini Tower 5-Bay/250W Power Supply
- Toshiba 5302 4X Internal Enhanced IDE CD-ROM
- Creative Labs Sound Blaster 16 Vibra Sound Card
- 3Com 3C590B Etherlink III Combo
- Smartlink 28.8 Internal V.34 Fax/Modem

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Patriot 8000

New Pentium Release!
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100% WINDOWS 95 COMPATIBLE
Specifications:
- Intel Pentium 75 & 90MHz
- 256KB L2 Cache Memory on Board
- 8MB RAM (16, 24, 32MB Optional)
- 32-Bit Local Bus with 1MB Video RAM
- Dual Scan 10.4" TFT
- Removable 540MB IDE HDD (810MB, 1.3GB Optional)
- 3.5" 1.44MB Removable Floppy Drive
- 2 Type II Slots or 1 Type III PCMCIA Slot
- 86-Key Keyboard, Inverted "T" Cursor
- Built-In Touch-Sensitive Trackpad
- Built-In Speakers and Microphone
- Built-In 16 Bit Audio Compatible with Sound Blaster 16 and Windows Sound System
- 2 Serial Ports (16550 UART), Parallel Port (EPP/ECP), MIDI/Joystick Port, (RCA Composite Video Port, Mini DIN S-Video Port)
- Built-In IrDA Compatible HP Infra-red Communications Module
- 110V-240V AC Adapter
- Removable NI-MH Battery
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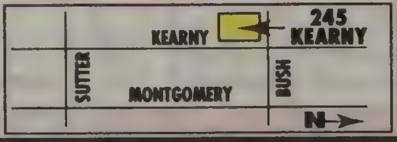

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PCI Windows Accelerator Video Card with 1MB DRAM
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Mini Tower Case W/230w PS
101 Enhanced Keyboard
MS Compatible Mouse w/Pad

Pentium 75MHz......$1099
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Panasonic 4x IDE CD-ROM
16 Bit Stereo Sound Card
Mini Tower Case w/230w PS
101 Enhanced Keyboard
MS Compatible Mouse with Pad

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Pentium 90MHz.....$1349
Pentium 100MHz...$1399
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Diamond Stealth 64 Bit PCI w/1MB DRAM
15" GVC Digital Green 1280X1024 0.28 Dpi Monitor
Mini Tower Case w/230W PS
Keytronic 101 Keyboard
Microsoft Serial Mouse w/Pad

Pentium 75MHz......$1575
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Intel Triton Zappa Mainboard with 256k Cache
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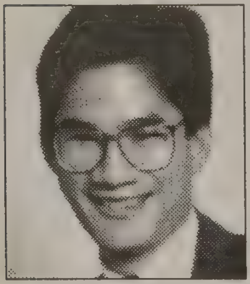
continued from page 150

his inner-city neighbors had access to computer-based resources.

Nor were all the barriers financial—low-cost systems were within the reach of many families who lacked the knowledge to use them. So, he decided to share what he knew with the community, says Compton resident Liggins.

"In June of 1994," he says, "I asked my wife to give me $360 to run an eight-week ad, soliciting computer hobbyists. She did, and the Inner City Computer Society was born." It is, he says, "aimed at giving inner-city communities a platform by which they can understand and take advantage of the economic, academic, social, and political benefits of technology."

The society enjoys extensive support from local organizations and individuals. Among its members' endeavors so far: a pie shop contemplating distribution in Japan thanks to a contact on the net; a Web site for a local black business directory; a local magazine's online edition.



Gilman Louie
Chairman
Spectrum Holobyte

Plagued by difficulties like continuing delays in the Star Trek Next Generation product lines, Louie nonetheless scored a major coup by recruiting Steve Race, former president of Sony Computer Entertainment and all-around Playstation expert, as Spectrum's new president during 1995. Louie expects the Playstation business to be significant for his company; he's also committed to being a leader in the online gaming world, having announced plans to make all the company's PC games networkable.

A.C. (Mike) Markkula
Chairman
Apple Computer
Founder
Echelon

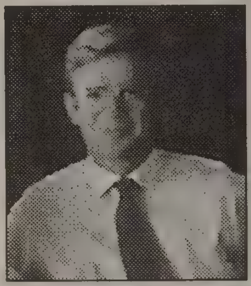
Markkula's long been known as an insightful player in the technology field—in addition to his legendary status as Apple co-founder, he founded Echelon in 1988 when home networking systems were largely the stuff of science fiction. In 1995 he was crucial in Apple's continued existence as an independent company, joining CEO Michael Spindler in warding off a campaign by then-CFO Joseph Graziano to induce the board to sell the company.

Markkula and his wife Linda are also noteworthy for their ongoing support of the Center for Applied Ethics at the University of Santa Clara, which was recently renamed in their honor. We salute them for this worthy endeavor and hope for a resulting industry-wide application of ethics.

Michael McConnell
Chairman, President & CEO
Visioneer

Former SuperMac chief McConnell has brought Visioneer from a promising startup with a breakthrough technology (PaperPort) to the brink of its first stock offering. Riding the growth of the home office market, he's grown Visioneer to the undisputed leader in getting the contents of paper into computers, easily and cost effectively. In addition to PaperPort's wild popularity under its own name, McConnell has found new applications for the technology in licensing agreements with Hewlett-Packard, which markets the device under the ScanJet 4S label, and Compaq, which is so far rather secretive about its plans.

Ed McCracken
Chairman, President, CEO
Silicon Graphics



McCracken continues to provide stellar leadership at SGI. He's exploring emerging media like 64-bit game machines while expanding SGI's leadership position in the 3D graphics workstation marketplace and moving aggressively onto the Web with its VRML language. During 1995, he improved SGI's position in the content-tools marketplace with the merger of Alias Research and Wavefront Technologies into a wholly owned software subsidiary, Alias/Wavefront; another big moment was the announcement of DreamWorks Digital Studio, a joint project of SGI and DreamWorks intended to provide creative production and asset management technology for all the Dream Team's businesses.

Scott McNealy
Chairman
Sun Microsystems

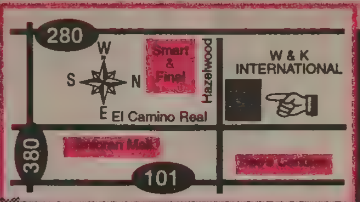
McNealy's time-honored adage that the network is the computer came into its own in spectacular fashion, as Sun's historic prowess in networked computing burst forth in revolutionary products like Java. By late 1995, McNealy was joining Oracle's Larry Ellison in promoting the notion of a low-cost "network computer" for the masses, with Java-based applets forever changing the software market as we know it.

Rand and Robyn Miller
Authors
Myst

The Miller Bros.' brand of interactive media differs considerably from the Doom model, but the success of Myst served as something of a proof of concept—not to mention a model for emulation. During 1995 the brothers, along with science fiction writer David Wingrove, published a prequel to Myst: The Book of Atrus. This was their first commercial venture in a new medium—paper.

Alok Mohan
President and CEO
The Santa Cruz Operation

Mohan has provided effective leadership at SCO following a turbulent period in which he took over for ousted founder Larry Michels, and now finds himself custodian of the UNIX standard following the reorganization of Novell. Since SCO was already the world's leading provider of UNIX, well entrenched in both large and small computing environments, it was perhaps the logical candidate to assume ownership of the OS.



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Morgridge's early recognition of the importance of networked communications enabled Cisco to become a leader in the field, and Chambers' recent leadership has leveraged the company's technical resources to the point where practically all Internet communications travel through a variety of Cisco products. Record sales and growth have resulted in reinvestment in the next generation; on October 24, Morgridge announced Cisco's Virtual Schoolhouse Grant Program to help K-12 schools connect to needed resources. In the words of an administrator in the Ravenswood School District in East Palo Alto, "this program has brought the district from the 1940s to the 1990s."

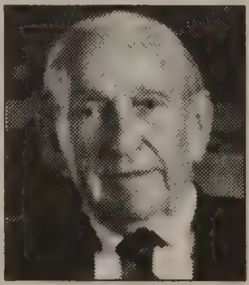
Ted Nelson
Father of Xanadu

While he'd be the first to tell you the deficiences of the Web as an implementation of his grand vision, there's no doubt that Nelson's decades-old concept of a global hyperlinked publishing network served as the inspiration for much of 1995's communication revolution. It remains to be seen whether some of the missing components, not least of which is the business of actually making money with online publishing, come into being, and whether they arrive in their often-Byzantine Xanadoid forms.

Tim Oren
Vice President of Future Technology
CompuServe

Oren's chiefly responsible for giving the venerable online service a technology transplant and enabling it to take advantage of emerging markets (with H. & R. Block as CompuServe's parent company and online commerce being a hot subject these days, some potential directions seem obvious). Oren's team produced the service's new Internet software; longer-term, they're involved in researching improved bandwidth from ISDN and coax networks, and what might be done with it.

David Packard
Founder
Hewlett-Packard



"In the fall of 1930 I left my hometown of Pueblo, Colorado, to enroll at Stanford University. There I met another freshman, Bill Hewlett....Through a combination of circumstances that I will describe in the following pages, Bill, some friends, and I decided to start our own business when we graduated....

"During the first few years of operating the Hewlett-Packard Company, Bill and I developed a way of doing things, a management style, that included some features not common to management in those days. This became known as the HP Way.

"This book is the story of Bill Hewlett and me and the Hewlett-Packard Company, which we spent our lives building and operating."

Thus begins Packard's *The HP Way: How Bill Hewlett and I Built Our Company*, an unpretentious and not-to-be-missed account of what amounts to the birth of Silicon Valley, as well as a straight-from-the-source account of the company culture that served as a model for the entire industry. A lot of books came out in 1995, few as engaging and rewarding as this one, and we'd like to thank HP's chairman emeritus for interrupting his well-deserved retirement to write it.

Eckhard Pfeiffer
President and CEO
Compaq

Pfeiffer has restored the Compaq brand name to its former glory after some wrenching paradigm shifts a few years back. He's managed the rare balancing act of staying at the technological leading edge while hitting the right price points and service combinations, in markets ranging from high-end superservers to extra-affordable consumer systems.

Lewis Platt
Chairman, President, CEO
Hewlett-Packard

Platt proved himself well able to manage a huge global company, as HP ramped up its networking business and maintained its market leadership from connectivity to consumer printers. HP's multi-decade reputation for product reliability brought it new fans in the home office, and at year's end the long-awaited OmniGo 100 was breathing new life into the lagging PDA market.

Larry Probst
Chairman, President, and CEO
Electronic Arts

With Probst at the helm, EA has prospered through platform wars that proved too much for many game developers—PCs to cartridges to CD-ROM game machines. And now back again—as he points out, the advent of Pentium processors and multimedia capabilities for consumer-level PCs has revitalized the PC game market, and Electronic Arts is poised to take advantage of it, with passion and experience in developing hit entertainment.

Beverly Reiser
President
YLEM

A pioneer in interactive media, whose work has appeared in venues from SIGGRAPH and the Digital Be-In to international art galleries, Reiser presides over this group of about 250 members interested in exploring opportunities created by overlapping art and science. Working in a variety of media including robotics, kinetic sculpture, and interactive multimedia, YLEM members broaden their own horizons and those of their audiences with often-unexpected juxtapositions. Reiser maintains the group's Web site (www.ylem.org/ylem), one of a number of YLEM services, which also include frequent presentations at the Exploratorium.

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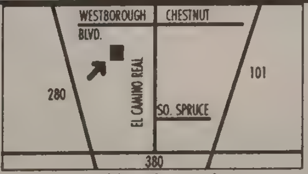


(Inside Fairway Plaza)

Howard Rheingold
Author

Now reaching a wide audience with his syndicated column "Tomorrow," Rheingold is a master at bringing technology into a human context, whether family computing or Digital Reiko. He's also a pioneer in new business models of digital publishing, figuring that it's worth his while to give his books away on the Web because of the future business it brings him; he's in the process of developing a paid system for readers to subscribe to his writings, bypassing print entirely.

Jack Rickard
Editor
Boardwatch

Long-time readers won't be surprised to find the ol' Editor Rotundus gracing this year's list, as the former hobbyist's newsletter becomes the indispensable resource for just about anybody with a modem, and the ONE BBSCON conference one of the online world's premier gathering places. Says reader James Gundry of Lawndale: "This man deserves recognition. His editorial presence and tone add a great deal to the quality of his publication. His charming grumpiness in his editorials and in his replies to letters to the editor combine laughter with rock solid common sense. He is a politically incorrect (yay!) defender of principles that are essential to a thriving and robust online community—he pulls absolutely no punches. Letters to the editor are full of 'thank yous' to Jack for providing readers with the information they needed for everything from a first call to a BBS, to starting their own Internet Service Provider business. Look into this guy."

Heidi Roizen
President and CEO
T/Maker

Roizen and co-founder Royal Farros have managed to steer T/Maker's course through some treacherous changes in the industry, reinventing the company several times in the process. The current identity, a subsidiary of giant Deluxe, has been a boon to T/Maker, in allowing the Mountain View company to leverage its leadership in ClickArt into a full line of World's Easiest products for the SOHO market—do-it-yourself stationery, certificates, and business cards generated with a few mouseclicks. T/Maker also found a receptive audience in another part of consumer computing, as its VroomBooks line brought multimedia titles to the preschool audience.

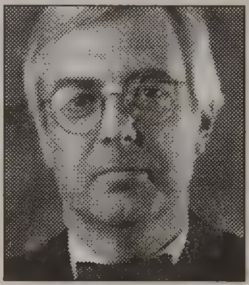
Louis Rossetto
Editor-Publisher

Jane Metcalfe
President
Wired

Wired's founders achieved the seemingly impossible, a successful business model out on the rarefied edge of the technological lifestyle. With the paper magazine now in localized editions worldwide, the HotWired Web site was one of the first online publications to take the Web seriously as a business venue and exploit its unique info-delivery potential.

Matt Sedik
Manager
SFSU Creative Arts College Computer Lab

Sedik was brought to our attention by a reader who asks to remain anonymous. Our correspondent praises Sedik both for his own accomplishments and as a representative of some unsung heroes of academe: "At 24 he's the Manager of the SFSU Creative Arts College Computer Lab, a Senior in Film Studies...and representative of the thousands of hardworking underpaid student techies everywhere that keep educational computer facilities going despite high traffic, aging equipment, out-of-date software & interdepartmental rivalries for time in the Labs." A most commendable endeavor, and we're happy to send a round of applause to Sedik and all his stalwart tribe.



Dick Shaffer
Principal
Technologic Partners

With a column in *Forbes* and two respected industry newsletters, Shaffer is one of the most influential authorities in the high-tech financial communities. His conferences provide a primo opportunity for investors, VCs, entrepreneurs, journalists and publicists to cruise and schmooze, listen to CEOs and experts hold forth on promising trends, and start the occasional company in the hallways.

Chuck Shotton
Author
MacHTTP/WebStar

It's largely thanks to Shotton's efforts that the market for Mac-based Internet server technology is as robust as it is; in the absence of an Apple solution to compete with the UNIX-based server market, Shotton went out and wrote one, first the shareware Mac HTTP, then the enhanced commercial version WebStar. We can testify from experience that the software makes it easy to put your Web site on a Mac, and we salute Shotton for this boon.

Masayoshi Son
Chairman
Softbank

Since making his first million in the game-machine business while still a student at Cal, the entrepreneurial Son-san has been making major waves in the industry for a while now—at home in Japan, where it's highly atypical for residents of Korean descent to prosper, he controls most of the software distribution and has marketing alliances with most vendors. In the US, he's acquired first Ziff-Davis's conference business (including the Seybold Seminars), then the Interface Group, and with it, COMDEX. No sooner had the industry stopped reeling from that news than Son acquired Ziff's publishing division, including such mainstays as *PC Magazine* and *MacWEEK*.

While some, including Son's new competitors, muttered dark specula-

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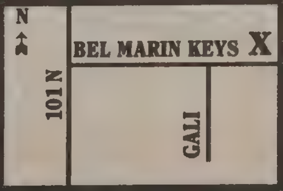

*Dealer Inquiries Welcome • *Volume Discount Available • *Price subject to change w/o notice • *Trademarks are registered by respective companies tion about conflict of interest in an organization that now reviews and sells the same products, reviews from inside the acquired companies are, so far, uniformly favorable. Son tends to pursue a strategy of acquiring companies that know what they're doing and not micromanaging them, apparently a welcome relief for the magazines in particular, who have suffered under the administration of a holding company that knew more about bean-counting than publishing. The trade show business seems upbeat as well—one Ziffie reports being pounced on repeatedly at COMDEX for no other reason than that his badge said Softbank, and plied with extravagant thanks from total strangers at perceived improvements. It remains to be seen what sort of business culture clash "the Japanese Bill Gates" might have in store, but it's certainly going to be interesting to watch.

Michael Spindler
CEO
Apple Computer

Spindler had more than his fair share of troubles in 1995, ranging from a basic Rodney Dangerfield image with the computer press to a mini-revolt on his own board, led by now-ex-CFO Joseph Graziano who wanted to throw in the towel and sell the company. Despite these misfortunes and other assorted turbulence, he achieved some remarkable milestones, including Mac's first-ever ranking as the best-selling personal computer brand in the US, the release of breakthrough technology in the speech-based Chinese Dictation Kit, and a new improved Newton.

Stanley Sporkin
Judge
US District Court

While Sporkin's personal involvement in Microsoft's ongoing court battles was relatively brief, his refusal to approve a consent decree between the Redmond company and the Department of Justice over the former's allegedly monopolistic business practices was the beginning of some unprecedentedly zealous government investigation. The ensuing climate proved fatal to the planned acquisition of Intuit, but by year's end both parties to that prospective deal were doing fine with new strategies; it seemed more than a little ironic to be worrying about monopolies in the OS and applications markets at precisely the time the Internet and Microsoft's competitors seemed poised to make operating systems and application ownership irrelevant.

Robert David Steele
President
Open Source Solutions

Steele, late of the Marines and the CIA, publishes a newsletter (*OSS Notices*) and hosts a conference aimed at knowledge workers, a constituency he defines with characteristic expansiveness as "spys [sic], Scholars, Hackers, Competitive Intelligence Analysts, Law Enforcement Analysts, Private Investigators, Journalists, and Information Brokers." The resulting mix is often impaired by severe language difficulties due to conflicting jargon, but, thanks to Steele's wide range of connections in the public and private sectors, it produces some lively and world-colliding exchanges.

Robert Stein
Co-Founder
Voyager

While most multimedia content vendors' business models put them in the unending quest for blockbuster hit titles, Stein's company provides a home for artistically excellent work that's unlikely to make anybody rich, for example Arthur Miller's *Crucible* and Art Spiegelman's *Maus*, as well as cult classics like *The Complete Hitchhiker's Guide To the Galaxy* and *This Is Spinal Tap*. In the wake of the latest bout of Beatlemania, though, he may find his early decision to distribute *Hard Day's Night* on CD-ROM resulting in an actual, if belated, hit.

Timothy Toney
Network Engineer, Fleet Numerical Meteorological Oceanography Center
US Navy

When we ask our readers for nominations to the MicroTimes 100, this is the sort of thing we love to get. Writes one of Mr. Toney's Navy colleagues: "This individual has taught himself a majority of the networking world. With no prior LAN experience, he developed thirteen LANs worldwide. These military installations have saved MILLIONS of taxpayer dollars by having this project done in-house! By working 12-16 hours days, he has integrated Novell 4.1 LANs with a variety of topologies, including Banyan Vines, 3B2, and Netware 3.1x. These thirteen locations are now being incorporated into a WAN, designed and installed by Tim Toney. He has proven his initiative and versatility by saving present and future tax dollars." So many thanks from us to Mr. Toney, in recognition of his skills, initiative, and kindness to the US taxpayer.

Petro Tyschtschenko
President and CEO
AMIGA Technologies

It's too soon to tell whether German entrepreneur Tyschtschenko will succeed where Commodore persistently shot itself in the foot, but he has the earnest support of the Amiga community as he embarks on the formidable task of revitalizing the beloved but ill-fated platform. With new machines due in the US and Europe, and announced plans to move to RISC architecture, he caused considerable joy among Amiga users and developers at November's Video Toaster Expo.

Ted Waitt
Chairman, President, and CEO
Gateway 2000

While many other hardware vendors have disappeared in the face of shrinking margins and rapidly changing technology, Waitt's just-in-time strategy of making all its PCs to order has allowed Gateway to avoid many of its competitors' problems and become the most successful direct-sales system vendor in the US. In a clone marketplace, Waitt's rapid adoption of new technology (e.g. converting the product line to all-Pentium early on) has inspired strong brand loyalty, particularly in the growing small/home office market.

continued on page 264

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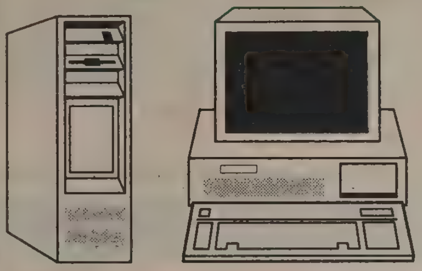

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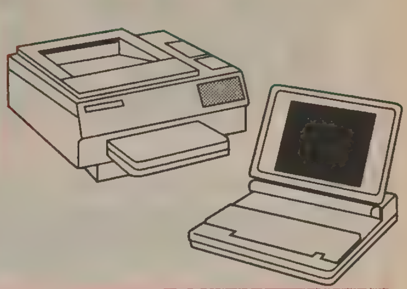

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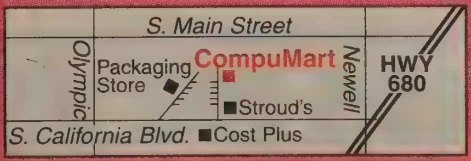

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- 256K Cache
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- 1:1 Interleave HD/FD Controller
- Tower or Desktop case w/power supply
- 101 Enhanced Keyboard

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❖ ASUS 55TP4XE w/256K Pipeline Cache ....Add $85

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- 1:1 Interleave HD/FD Controller
- Tower or Desktop case w/power suppl
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- 1:1 Interleave HD/FD Controller
- Tower or Desktop case w/power supply
- 101 Enhanced Keyboard

486DX2-80MHz

80MHz $275

- Heat sink & CPU fan
- VESA Local Bus Motherboard
- 1MB Expandable to 32MB on board
- 8K Internal Cache
- 128K External Cache Exp to 256K
- Shadow RAM
- 1.2 or 1.44MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Tower or Desktop case w/power supply
- 101 Enhanced Keyboard

486DX2-66MHz

66MHz $265

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- 1MB Expandable to 32MB on board
- 8K Internal Cache
- 128K External Cache Exp to 256K
- Shadow RAM
- 1.2 or 1.44MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Tower or Desktop case w/power supply
- 101 Enhanced Keyboard

386-40MHz

w/ 128K Cache $245

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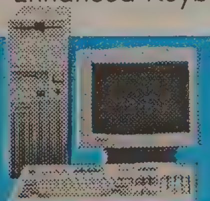

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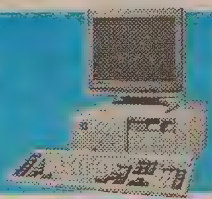

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486DX4-100MHz w/CPU	190
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586-120MHz w/Intel CPU & fan	525
586-100MHz w/Intel CPU, CPU fan	475
586-90MHz w/Intel CPU, CPU fan	440
586-75MHz w/Intel CPU, CPU fan	350

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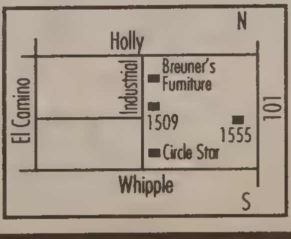

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ACCOUNTING • BY DAVID A. SIMON, CPA AND JENNIFER R. CHERNISS

Not-For-Profit Accounting Software

Doing Your Books Well While Doing Good

The accounting and reporting requirements of nonprofit entities are quite different than those of profit-seeking enterprises, and have spawned a family of accounting software packages designed specifically for their needs.

Not-for-profit entities vary in size from small social clubs and local charities to hospitals, universities, and governments. Similarly, there is an enormous range in capabilities and price of software serving not-for-profit organizations (NPOs), just as there is great diversity in standard business accounting packages.

The kind of accounting performed by NPOs is known as fund accounting, because money is accounted for by various funds, each with its own designated purpose. Money that an NPO receives is often, but not always, restricted to a specified use. The NPO accounting system must be able to track how much spending has been authorized for each restricted fund and compare it to actual expenditures and encumbrances (expenditures that are authorized but haven't yet happened) for that fund.

The format and content of NPO financial statements is also very different than that of cold, hard business. Most for-profit businesses keep only one set of books (legitimately), whereas NPOs are often required to keep a separate set of books for each fund. Operating statements may be prepared for each activity, grant, location, or project, and funds may report by different fiscal years.

The Right Tools For Doing The Right Thing

A separate body of official accounting standards applies. These rules specify what must be presented in the basic statements as well as disclosures to be made in supplemental schedules.

In selecting accounting software, it doesn't make good sense to stretch and contort regular business accounting software to fit a nonprofit environment. Nevertheless, that is exactly what many smaller NPOs do. The reason is simple: the specialized packages are expensive, relatively temperamental, and burdensome to learn.

Even the least expensive, low-end NPO software is no bargain. Prices for a basic low-end installation start at around a couple thousand dollars and from there head skyward. Discounts apply neither to volunteer bookkeepers saving whales nor to Republicans for the Arts.

NPO accounting packages are truly niche software. The market for these products is only a fraction of that for business accounting software, vendors don't aim for the same mass market strategies, nor do they provide the seemingly limitless selection. Also missing are the ease-of-use features and bells and whistles to which we've grown accustomed in most office software.

When installing and customizing your chosen package, know that specialized rules of fund accounting itself can be burdensome. Many accountants learn only enough of the rules to pass their licensing exam, rarely looking at the stuff again, much less becoming proficient. Fund accounting requires more than attaching another disclosure to a financial statement. It's an altogether different system focusing on budgets, restrictions, and authorizations, instead of the familiar red and black ink.

EVEN THE LEAST EXPENSIVE, LOW-END NPO SOFTWARE IS NO BARGAIN. PRICES FOR A BASIC LOW-END INSTALLATION START AT AROUND A COUPLE THOUSAND DOLLARS AND FROM THERE HEAD SKYWARD.

For the small organization willing to take the plunge, Fund-Plus, by Cougar Mountain Fund Accounting ($1999 single-user version without payroll, DOS only), has a relatively large share of the market. Not only is it the cheapest of the lot, but Fund Plus comes out of the box as one complete package. You don't have to integrate—or pay for—each separate module (except payroll). Fund-Plus is particularly popular among small, community-size charities.

An important feature offered by Fund-Plus that is not well represented among competing offerings is the ability to export to dBase or other standard database formats. The ability to import and export data in other formats is particularly important with accounting software. For one thing, you may wish to manipulate the data in a spreadsheet or word processor. As your organization grows and changes, you may need to convert accounting data to different file formats in order to convert to a new accounting package.

The new Windows 3.1 version of Fund-Plus supports dynamic data exchange (DDE), allowing users to link and share data with other Windows applications such as word processing and spreadsheets.

AccountMate, by SourceMate Information Systems, is another relatively low-priced NPO package. The system price will vary from user to user because it is purchased in modules. A typical installation consisting of several modules might run around $2500.

Despite it's relatively low cost, AccountMate is a fairly comprehensive fund accounting package. It tracks funds from their sources and it reports on budgets and balances, both for departments and activities. AccountMate is based on a batch posting system, as are most packages that are oriented toward higher volumes of transactions. Thus, all the transactions for the day or week might be processed together as a batch for greater efficiency.

On the downside, the program does not support formal encumbrance accounting—an important aspect of fund accounting. Encumbrance accounting has to do with tracking funds that have been designated for a specific purpose; for example, when a purchase order is issued. Under encumbrance accounting, most NPOs recognize expenses at the time a commitment is made to purchase a product or service. At that point, a restriction against the fund is recorded, even though the NPO has not yet received any goods or services and the order may be cancelable.

In many cases, it is acceptable to run over budget here and there, and it's sufficient to merely keep track of things. But when you need to track several funds to ensure against exceeding a formal spending limit, encumbrance accounting becomes necessary.

AccountMate does not handle year-end automatic reversing entries. This can be a minor inconvenience to the bookkeeper, who will have to reverse the entries manually, and a headache for the accountant if the bookkeeper fails to do so properly.

Axcent, by Axcent Software, is another relatively low-cost NPO accounting package. It, too, costs around $2000, but actual price varies depending upon how many modules are purchased. A fixed asset module costs extra ($695), and an annual update fee is $500.

Axcent is a DOS program; a Windows version is being developed. The program's strong suit is its especially flexible reporting capabilities. Grants and special-purpose fund reports can be easily prepared for periods spanning fiscal years. Separate books can be maintained for several types of projects, grants, or departments. Axcent supports encumbrance accounting.

While Axcent is widely used by smaller organizations, because of its knack for diverse reporting and ability to handle fixed assets, it is also used by large local and national entities.

In the not-so-great category, as one might well expect from a program designed to do OK on a 286 with 640K RAM, the input screens are not very interesting or innovative. But this may all change with the Windows release, currently in vaporware.

If youth and vigor appeal to you, Kenrick, by Kenrick Technologies, provides an interface more consistent with a true Windows accounting program (DOS version also available). The program is flexible and powerful, and supports DDE.

Reports are designed to conform to the latest official accounting pronouncements, including recent promulgations dealing with contributions received by NPOs and new standards for general purpose external financial statements.

While its ease of use would make it attractive among even small NPOs, it is too expensive for many. A modest installation can cost around $3500. Annual updates start at $660. On the other hand, the additional cost is certainly justified in terms of program capabilities.

Getting By

Many nonprofit groups simply cannot afford the $2000 price tag for even the least costly fund accounting packages. It is particularly difficult for these groups to make such a sacrifice when adequate general business accounting software for small organizations can be purchased for a tenth of the price. Moreover, for those with limited resources, it is more difficult to train a bookkeeper to operate specialized software than to find someone who can at least keep records on Peachtree.

The final decision depends upon what you need and what you can get by with. Factors to consider include how many funds and transactions need to be monitored, the overall complexity of your accounting situation, and whether special reporting requirements are imposed by outside entities, such as a grant provider or governmental agency.

For those seeking further information about the subject, an extensive checklist of program capabilities for nine not-for-profit accounting software packages is presented in the *Journal of Accountancy* for September, 1995 (see endbar).

When selecting a package, note that the prices we've mentioned include only the raw materials—the software itself. An additional allotment should be budgeted for the services of a qualified accounting expert who sets up the system for your specific needs. ■

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Complimentary reprints of the following are available from David Simon's office in Oakland at (510)893-5753.
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RESOURCES:

AccountMate
SourceMate Information Systems
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- 32-Bit VLB IDE Controller
- SVGA Windows Accel. VLB 1MB
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- Microsoft Compatible Serial Mouse
- Mouse & Keyboard Wrist Pads
- 486 CPU Heatsink & Fan

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QDI Triton 586PCI EIDE/IO w/256K	$152
Intel Hendrix 586-60/66MHz w/SVGA EIDE/IO	$205
Intel Zappa Triton 586PCI w/256K	$219
Intel Endeavor 586PCI w/16-Bit SC (Pipeline Burst)	$Call
Intel Atlantic 586PCI w/16-Bit SC, ATI Mach 64 (PB)	$Call
ASUS Triton 586PCI w/256K (Pipeline Ready)	$215
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Intel 486DX4-100MHz (3V)	$92
Intel P5-75MHz (3V)	$Call
Intel P5-90MHz (3V)	$Call
Intel P5-100Mhz (3V)	$Call
Intel P5-120MHz (3V)	$Call
Intel P5-133Mhz (3V)	$Call

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4 x 32 - 70ns (72-pin) 16Mb	$Call
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2MB Upgrade Module for Stealth 64 Video	$139.95

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ADI 5AP 17" (1280x1024) .26 NI	$729
GVC 14" (1024x768) .28 NI	$219
GVC 15" (1280x1024) .28 NI Digital	$315
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KFC 14" .28 NI (1024x768)	$215
KFC 15" .28 NI (1280x1024)	$279
KFC 15" .28 NI (1280x1024) w/Digital	$345
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ViewSonic 15GA (1280x1024) .28 NI 60Hz w/Speakers	$499
ViewSonic 17GS (1280x1024) .27 NI 60Hz	$739
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IOMega ZIP Drive 100MB Ext.	$199
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ORCHID Farenheit 64 PCI w/1MB DRAM	$115
ATI Winturbo VLB/PCI w/2MB VRAM	$245
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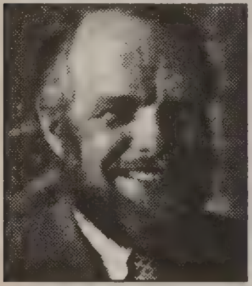
continued from page 256

John Walker
Webmaster
www.fourmilab.ch

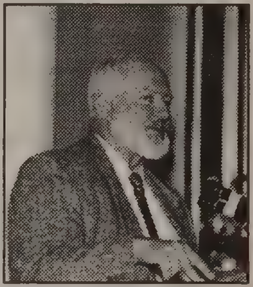
A permanent occupant of numerous Cool Sites list, Autodesk cofounder Walker's latest creation rewards hours of exploration (and incidentally serves as an interesting counterpoint to various ships-passing-in-the-night bizpress accounts of Walker and Autodesk over the years). There's an amazing wealth of stuff here, from programming resources to hints for learning French, not to mention the complete (indeed much expanded) texts of *The Autodesk File, The Hacker's Diet,* and assorted science fiction. Other thought-provoking destinations on this site include the Minerats page, discussing current research on low-cost semi-autonomous robots for eliminating land mines, and Terranova, a page that allows those so inclined to visit a new terraformed planet each day.



John Warnock
Chairman and CEO
Adobe Systems

Through a number of paradigm shifts that have shaken other companies to their foundations, Warnock has kept his company at the forefront of the publishing tools market since the days of the first PostScript-based laser printer. Adobe's 1995 acquisition of Aldus and Frame helped further entrench its leadership position, and its hot new Web publishing tool PageMill promises to do for the Internet what PostScript, PageMaker, Illustrator and Photoshop did for paper.

Jim Warren
Columnist



A columnist and frequent speaker on subjects related to the intersection of politics and technology, Warren is also reaching a new global audience with his GovAccess mailing list on the Internet. His tireless efforts result in frequent, extensive updates on the latest happenings in the halls of government, from computer-based access to government to free speech and privacy issues; GovAccess serves as an informative resource for government workers, journalists, and citizens who just want to make sure that they have input into developing policy.

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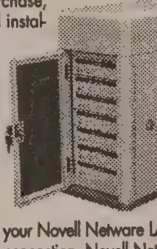

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Phil White
Chairman, President, CEO
Informix

An outstanding manager and a scrappy competitor, White led the company through a difficult technology transition a few years ago and had the satisfaction of seeing it all pay off in 1995, as Informix passed a delay-plagued Sybase to become second only to Oracle in the relational database market. As befits the leader of a company that's been relentlessly taking out billboard space at the very off-ramp of Oracle for years, White couldn't be happier about this development.

John Wilczak
Chairman, President
Kai Krause
Lead Designer
MetaTools

With Wilczak's startup expertise and Krause's legendary standing in the design world, MetaTools (formerly HSC) has risen to prosperity and market leadership with products including the ever-evolving Kai's Power Tools, Bryce, Convolver, etc. Now they're turning their attention to developing design tools for Web pages with the same innovation that previous offerings have brought to print.

Ann Winblad
Partner
Hummer Winblad Venture Partners

An oft-quoted commentator and advisor in the development community, Winblad focuses on the opportunities and synergies of the software market. With a huge demand for software to take advantage of emerging platforms from Win95 to Netscape and beyond, she's one of the shrewdest observers and reliable guides for the hopeful startup.

Phil Zimmermann
Author
PGP

While his legal troubles for "exporting munitions" aren't over, the unassuming Zimmermann toils on with the task of making reliable privacy protection available to ordinary citizens, in the face of authority figures who keep trying to find pretexts to make him stop. In 1995 MIT Press published his *Official PGP User's Guide*, a book John Perry Barlow describes, with characteristic restraint, as "the root tendril which will grow into the National Security State and shatter it...a work as liberating as *Common Sense* or...as socially disruptive as *Mein Kampf*." ■

BMUG

continued from page 166

security in full-time employment, and will decide (or be forced) to try consulting. At this point they will discover that they can work at their own pace, and, if they want, have something approaching a life.

BMUG will continue to rock!

•Dan R. Meriwether, Internet consultant and author, moderator of BMUG's Internet SIG: Unless Apple really pulls off a coup, Macintosh computers will lose Internet market share, currently estimated at around 35%. UNIX built the framework, Macintosh made it easy to use, and Windows, with a year or five delay, copied the Mac.

As Microsoft Network users become anesthetized to privacy intrusion, you can expect a dramatically increased presence from the evil empire.

Contrary to the vociferous predictions of many, the Internet will see little, if any, market interest or product realization in cheap Internet terminal boxes run primarily by applets across the net.

Web sites are due for several radical departures from "traditional" development methods. Many larger sites will begin the move toward a dynamic rather than a static structure. Instead of a flat field of pages, each a static document, Web pages will increasingly incorporate on-the-fly page construction, integrated databases, and client-tracking mechanisms into their sites.

> ***Cable television providers will offer Internet access. Users will have a new choice: whether to purchase televisions that run Windows or the Mac OS.***
>
> ***—Bruce Linde***

Many users will be surprised to find out just how much the Internet servers they access know about them. What servers know about those who access them, when, and how, has a great deal of marketing demographic value. Expect to be categorized this year.

The role of Internet service providers (ISP) as modem banks will diminish at a significant pace. Cable and wireless modems, inexpensive ISDN lines, and cheaper frame-relay will aid in this process. As a result, users will demand more performance from their ISP's servers.

ISPs that are not able or willing to empower their users will see an increasing decline of their margins. Expect the long-predicted ISP consolidation to rear its head late in the year. ■

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- Yamaha 10 Watt Stereo Speakers
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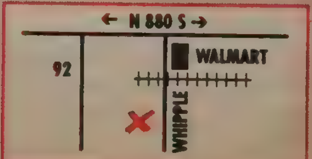

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BMUG is an educational, nonprofit, consumer advocacy group organized to share information and provide critical direction to users and developers in the computer community worldwide. It is an independent advocate, not affiliated with any manufacturer, delivering trustworthy information and useful products.

Like any growing organization, it is many different things to its fifteen thousand international members. BMUG supports many special interest groups (SIGs), 18-line Planet BMUG, and 11-line BMUG Boston BBSes, a software library, weekly meetings, publications, and much more. BMUG also puts out a semi-annual 500-page book that we call our "newsletter."

Our motto continues to be: *We're in the business of giving away information.*

Come and join in the dialogue at the BMUG main meeting every Thursday evening, 6:30–9:30 (or whenever we finish), on the UC campus. BMUG West and BMUG South are monthly meetings held in San Francisco and San Jose. Check the Announcement Line at (510)549-2684 ext. 8.

The BMUG Office, 2055 Center Street (a half block from the BART station), is open to the public 8:30 am–4:30 pm. Please come by, say hello, and meet other members.

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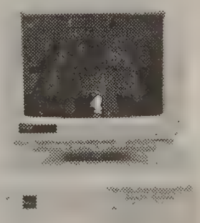

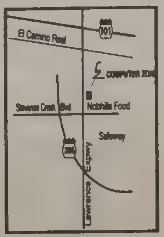

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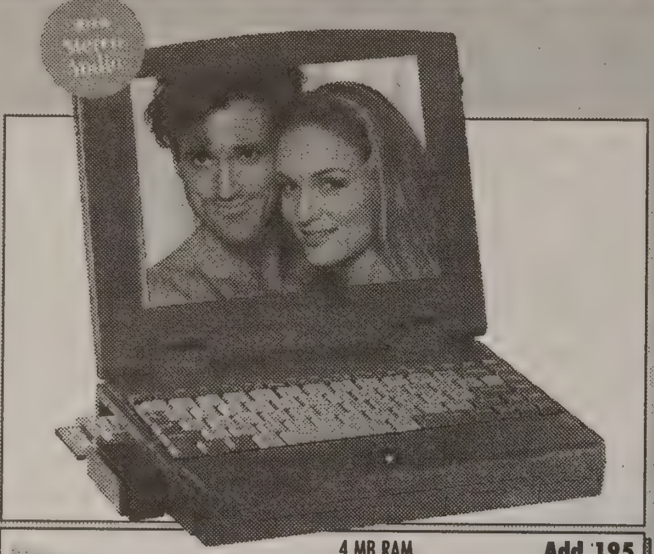

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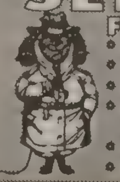

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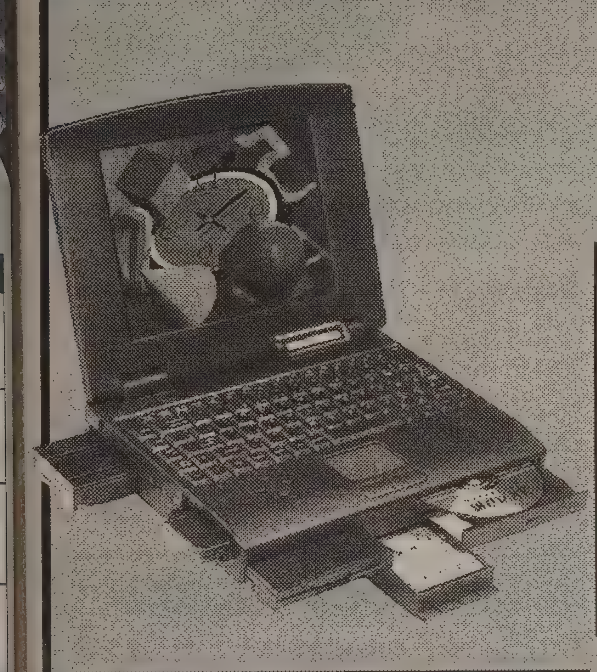

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Diamond Stealth 64 PCI/VLB 2 MB VRAM	255
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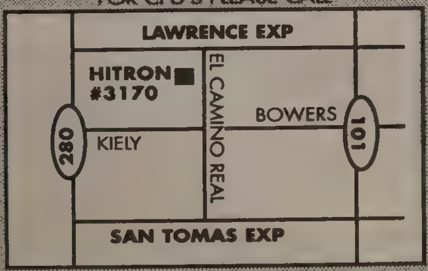

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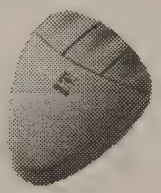

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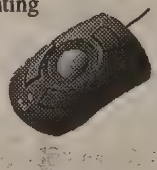

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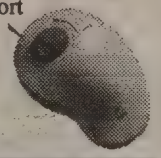

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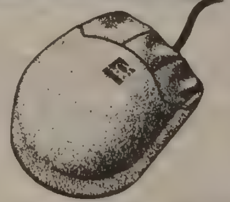

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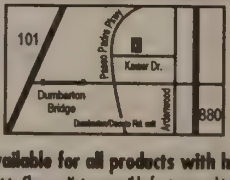

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GULCH GOSSIP

"Bus Me To The Party" continued from page 231

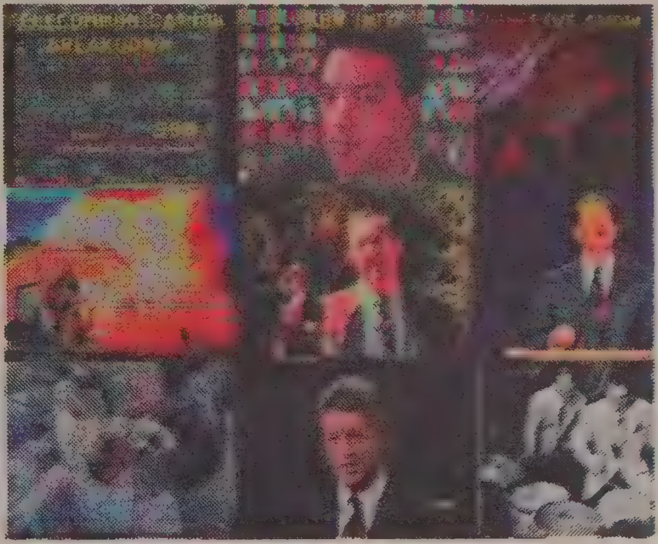
CD-ROM for those who still hadn't seen it. The unanswered question that popped into my mind was, "Why are people ordering Miller when the bar still has Samuel Adams?" Final proof that this is not an altogether classy business.

For a while it seemed as though **Kevin Krejci** was in drag, but it turned out to be a woman with his name tag. Kevin himself actually looked very dapper and quite masculine in a blue tuxedo and a shirt with a huge collar. He also promised that the next Pop Rocket title would be out in two months, which means you should start looking for it in about a month…or maybe an eon. This time the plan is to give the testers screwdrivers rather than beer, but he wouldn't reveal anything else about it! Still on the fence about Total Distortion? Check the Web site: *http://www.poprocket.com*.

I was stoked about the Emergency Broadcast Network show at the Trocadero Transfer, particularly since the plans for the evening included **Marc Canter** hosting a pre-show dinner at Miss Pearl's, the party room at the venue, and a post-show gathering at the Phoenix. Wow! talk about life in the fast lane! My own personal fast lane turned out to be flat on my back in my own bed gobbling pain killers and muscle relaxants, which I can assure you are much more fun when taken for non-therapeutic reasons. To make up to Marc for my absence I offered him the opportunity "to be my special guest celebrity correspondent and spread lies, rumour, innuendo, and scandal about the events of the night." Somewhat indignantly, he replied, "I assume you're assuming that there was lots of gossip, lies, etc. spread at this particular event."

Hmm, maybe I misspoke, but that didn't actually stop Marc from then giving me two items that if I can ever check 'em out and get confirmation will be lovely pieces of slime! As regards the show, Marc writes, "EBN was terrifying. They repeated the same few songs and licks…over and over again, but I can't seem to identify *anybody* else that's even half as hip as these guys." I can't help but wonder if he includes himself in this assessment. My virtual opinion of EBN based on its ***Telecommunication Breakdown*** CD/CD-ROM? (Faithful readers must have been waiting for this!) I find the music quite abrasive and irritating, yet also strangely catchy.

About a year and a half ago, AVX Design, the associated multimedia arm of EBN, came to town and demonstrated a very cool interactive video program that allowed you to jump around between different musical viewpoints, and also from one point in time to another, by banging away on the keyboard. Essentially you could do crude video editing and scratching on the fly. I was truly impressed by its interactivity.



Unfortunately, that feature didn't make it onto the CD-ROM. What there is is a fairly confusing (deliberately so, I assume) video-wall interface. By clicking the mouse around the screen you basically branch to different video clips, trigger video effects, call up lyrics or background info, or cue the audio CD, but that's about where the interactivity stops. It never gets beyond basic selectivity or point-and-click.

EBN's central thesis is that we're awash in electronic media that the rich and powerful use to manipulate the minds of the general populace. Fair enough, but if you can't do more than make that fairly obvious point, if you can't offer something of a solution, if your images are ye same olde TV images with an unsavory militaristic bent, the truly radical act in this media-saturated world would be to shut up, keep quiet, and not attempt to inflict your opinions on everybody else by using what amounts to little more than a slight twist of ye same olde channel-surfing techniques.

One day maybe I'll get radical and follow my own advice—but in the meantime, that's my printed opinion.

Screen Spacers

Screen savers are getting a bit old hat now so **Tony Bove** and **Cheryl Rhodes** of Rockument, publishers of ***Haight-Ashbury in the Sixties!***, have developed **Screen Spacers**. Find out what they are and get yours for free from *http://www.rockument.com*. Be warned that it's a fairly long download, but the result is a fun little toy that is definitely multimedia.

Get Your Face Into Cyberspace

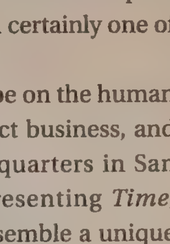
I'M PASSING THIS COOL IDEA ON pretty much as I received it, edited only slightly for brevity.

Rick Smolan and the team that created the *Day in the Life, From Alice to Ocean,* and *Passage to Vietnam* photography books want to shoot you and your friends! They're looking for the best examples about how cyberspace is changing people's lives all over the world, and if they like your story they may send one of the world's top photographers to shoot pictures of you on Thursday, February 8, 1996.

On that day, over one thousand photographers armed with digital cameras will be dispatched around the globe to show how cyberspace is beginning to reach out and affect people's lives. It's going to be one of the largest photographic projects ever done, and certainly one of the biggest collaborative Internet projects.

The focus of *24 Hours in Cyberspace: Painting on the Walls of the Digital Cave* will be on the human stories behind the technology—the new ways in which we work, play, learn, conduct business, and interact. These photographs will be transmitted digitally back to project headquarters in San Francisco that same day, where an international team of eighty editors (representing *Time, Newsweek, Life, National Geographic,* etc.), plus designers and programmers will assemble a unique "instant" 24-hour World Wide Web site. The goal is to produce unprecedented online, real-time photojournalism on a global scale.

The goal here is *not* to show people sitting at computer terminals, and it's not about collecting lots of random "bits." The project is driven by carefully researched assignments and is both photographically and editorially driven. The goal is to show in photographs and words how people's lives are being affected as a result of being wired.



If you think you've got a great story to tell and would like to either submit an assignment idea or learn more about how you can participate in this cool project, please send your ideas to: *Stories@Cyber24.com* or check out *http://www.Cyber24.com*.

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Nanao T2-17 - Trinitron17" .25DP,16Kx12K@66Hz, 130Mhz Bndwth, 140W operation, 15W@StandBy, 8W@off	$1219
Nanao T2-17TS - Trinitron17" .25DP,16Kx12K@66Hz, 110Mhz Bndwth, 110W operation, 10W@StandBy, 5W@off	[illegible]
Nanao T2-20 - Trinitron 20" .30DP 16Kx12K@66Hz	[illegible]
Nanao F2-17 17" 28DP 1280x1K@66Hz	[illegible]
Nanao F2-17EX 17" .26DP 16Kx12K@66Hz	[illegible]
Nanao F2-21 21" .28DP 16Kx12K@72Hz	[illegible]
Nanao FX2-21 21" .28DP 16Kx12K@82Hz	$2885
Viewsonic 14ES/15ES/15G/15GS/17GS/20G/ 15GA/17GA/17PS/PT810/21PS/17EA	$Call
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USR Sportster VI 14.4K Fax w/ Persnl Voice Mail Int./Ext.	$119/144
USR Sportster VI 28.8K Fax w/Persnl Voice Mail Int./Ext	**$205/$225**
Boca SoundExpression 14.4K V.32Bis Data/Fax/Voice-mail, Speak phone, 16Bit Sound Blaster Surround Sound, CD-ROM interface	$155
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Conner 800MB TapeStor Travan int. off floppy TST800 w/tape	**$160**
Conner 3.2GB TapeStor Travan int. off floppy TST3200 w/tape	**$295**
Colorado 400-800MB C4320B Backup Travan off floppy w/tape	**$185**
Colorado 350MB DJ35C Backup off floppy QIC-80	$120
Colorado 1.4GB DJ50 Backup off floppy QIC30/20	$215
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Toshiba XM-3701B SixSpeed SCSI-2, 900KB/Sec, Internal	[illegible]
Panasonic CD-504B Quad Speed ATAPI SCSI-2 600KB/s	
Plextor 4-Plex 256 QuadSpd PX-43CS, SCSI-2, 600Kb/sec, internal 125ms seek, 256K Buffer, Caddy, 2-yr warranty	$275
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TRIOT 6000A - 486, 10.4" Screen, 8MB, 1.44FD, TouchPad, SoundBlaster16

[illegible]	Dual Scan	Active Matrix
[illegible]	[illegible]	[illegible]
yrix 5X-100	$2090/$2214/$2381	$2597/$2722/$2889

TRIOT 8000i - Pentium, 10.4" Screen, 8MB, 1.44FD, TouchPad, SoundBlaster16

[illegible]	Dual Scan	Active Matrix
[illegible]	[illegible]	[illegible]
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PCMCIA 28.8 Fax/Data	$219
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PCMCIA SCSI Interface	$165
NiMH Battery Pack	$105
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8MB Memory Module	$365
16MB Memory Module	$595
Int. CD-ROM 2X Drive	$245
Int. CD-ROM 4X Drive	$395

COM PATRIOT 8000i

ACOM PATRIOT 6000A

ACOM PATRIOT 8000i SPECIFICATIONS

CPU
- Intel Pentium 75/90/100 CPU

BIOS
- 1MB Phoenix systems Flash BIOS

CACHE
- 256KB level 2 cache monery onboard

Memory
- 8MB RAM onboard, up to 8/16/24/32MB using industrial standard DIMM memory

Display
- 32Bit PCI VGA sub-system with 1MB VRAM onbrd
- Support LCD/external CRT simultaneous display
- 10.4" VGA DSTN DualScan color LCD
- 10.4" VGA TFT ActiveMatrix color LCD

Data Storage
- Built-in one 2.5" 540MB harddrive and up
- Built-in one removeable 3.5" 1.44MB FDD,
- FD replaceable with 5.25" 2X/4X ATATPI IDE CD-ROM

PCMCIA
- Built-in 2 PCMCIA type-II slots or 1 type-III slot (type IV)

I/O Ports
- 2 x9 pin serial ports (16550 UARTs)
- 1 x25 pin parallel port (EPP/ECP support)
- 1 x15 pin external monitor port
- 1 x 15 pin MIDI/joystick port
- 1 x 6 pin PS/2 keyboard/mouse port
- 1 x RCA composite video port
- 1 x 4 pin mini-DIN S-video port
- 1 x200 pin docking Interface

Wireless Link
- Built-in IrDA compatible HP infra-red transmitt module

Audio
- Built-in speakers and microphone
- Built-in 16bit Vibra audio compatible with Sound Blaster 16 and Windows Sound System
- Line-in, Line-out and external microphone jacks

Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Keyboard
- 86 keyboard with support for all keys of an AT-enhanced keyboard inverted "T" cursor control keys.

Power System
- Auto-sensing 110V-240V AC adaptor
- Removeable & rechargeable 33.6Wh NiMH battery
- Second battery pack can be installed in place of FDD

Dimemsion
- 9.25"(D) x 11.8"(L) x 2.04"(H)

Weight
- 6.2LBS (with battery)

Optional devices:
- 5.25" 2x/4x ATAPI IDE TEAC CD-ROM drive
- MPEG-1 playback module
- Car adaptor

ACOM PATRIOT 6000A SPECIFICATIONS

CPU
- 486DX4-100Mhz or Cyrix5X-100/120Mhz

BIOS
- 1MB Phoenix systems Flash BIOS

Memory
- 8MB RAM onboard, up to 8/16/24/32MB using industrial standard DIMM memory

Display
- 32Bit VLB VGA sub-system with 1MB VRAM onbrd
- Support LCD/external CRT simultaneous display
- 10.4" VGA DSTN DualScan color LCD
- 10.4" VGA TFT ActiveMatrix color LCD

Data Storage
- Built-in one 2.5" 540MB harddrive and up
- Built-in one removeable 3.5" 1.44MB FDD,
- FD replaceable with 5.25" 2X/4X ATATPI IDE CD-ROM

PCMCIA
- Built-in 2 PCMCIA type-II slots or 1 type-III slot

I/O Ports
- 1 x9 pin serial port (16550 UART)
- 1 x25 pin parallel port (EPP/ECP support)
- 1 x15 pin external monitor port
- 1 x200 pin docking interface

Wireless Link
- Built-in IrDA compatible HP infra-red transmitt module

Audio
- Built-in speakers and microphone
- Built-in 16bit Vibra audio compatible with Sound Blaster 16 and Windows Sound System
- Line-in, Line-out and external microphone jacks

Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Keyboard
- 86 keyboard with support for all keys of an AT-enhanced keyboard inverted "T" cursor control keys.

Power System
- Auto-sensing 110V-240V AC adaptor
- Removeable & rechargeable 33.6Wh NiMH battery

Dimemsion
- 8.82"(D) x 11.5"(L) x 1.89"(H)

Weight
- 6.2LBS (with battery)

Optional devices:
- 5.25" 2x/4x ATAPI IDE TEAC CD-ROM drive
- Car adaptor

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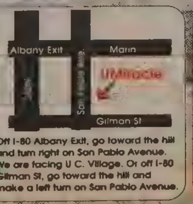

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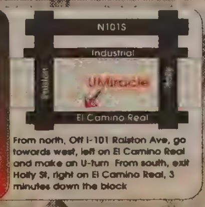

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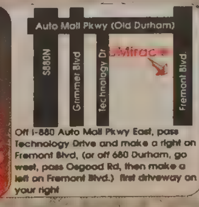

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How Does Joel Selvin Sleep At Night?

Maybe he doesn't have to. Judging by his execrable early December roundup of Enhanced CDs and musically oriented CD-ROMs in the *SF Chronicle Datebook*, he's asleep on the job.

This commentary may be bad journalistic etiquette or, worse yet, bad for my karma, but the record should be set straight on several matters of fact and Mr. Selvin's fundamental lack of insight should be ridiculed.

However, I do share his skepticism about the **Rolling Stones'** ***Voodoo Lounge*** CD-ROM (you'll have to read next month's Multimedia 101 to know what I really think about it because it only arrived in the mail the day I'm writing this) and I was also unimpressed by a demo of the **Cranberries'** ***Doors and Windows***.

His cheap shot in the first sentence about "tiny computer speakers" was, of course, an absolute giveaway—I can readily believe that his employers are too cheap to spring for decent speakers, but why advertise the fact that you can't be bothered to give the products a decent shot? It's like writing about '60s rock based on hearing it through your hip neighbors' window. See this month's Multimedia 101 if you don't know what to do about tiny computer speakers.

The piece hit rock bottom in Mr. Selvin's commentary on the Gulch's own OM Records' releases, ***The Grooveactive Collection*** and ***Spiritual High***. There's no way you can accurately call **A Tribe Called Quest** or the **Brand New Heavies** "up-and-coming hip-hop acts." Neither can one call **Chrissie Hynde** of the **Pretenders** (singing with **Moodswings**), **Nusrat Fateh Ali Khan**, **Geoffrey Oryema**, or **African Head Charge** "New Age instrumentalists" and expect to retain a shred of credibility. In fact, I wouldn't call a single one of the artists on *Spiritual High* a New Age instrumentalist, although, for reasons that escape me you'll often find **Steve Roach** in the New Age section of record stores.

Mr. Selvin calls ***Meet MediaBand*** "perhaps pointless." True, Marc Canter sometimes pays me good money, so you may be cynical and cry "conflict of interest," but the fact of the matter is that *Meet MediaBand* is in no way pointless. You may disagree with its various points, but one of its great strengths is that it is about something—actually several things; it says things that conventional music making can't say (I said this long before Marc saw the essential correctness of my opinions!). I doubt that Mr. Selvin or his so-called editors paid any serious attention to what he was writing about. Perhaps he didn't even listen at all; surely he knows the voice of Chrissie Hynde? Now that I've got that off my chest, I can sleep better. ■

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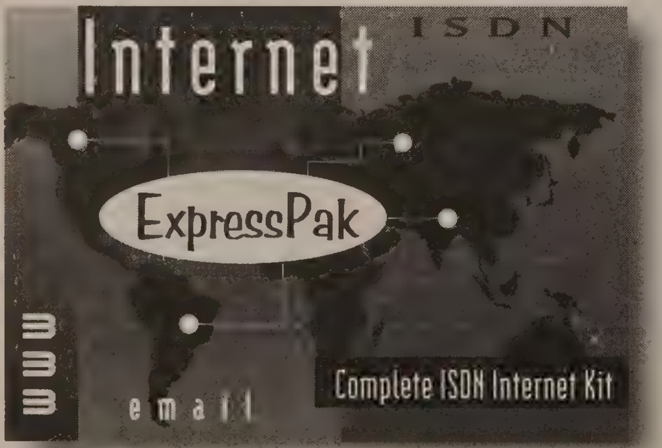

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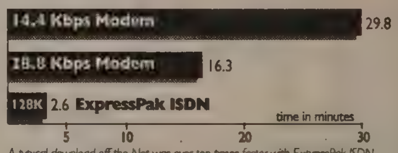

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Endeavor, Pipline Burst 256K	$245
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Matrox	
Millenium PCI 2MB WRAM	$325
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9FX Vision 330 1MB/2MB	$127/170
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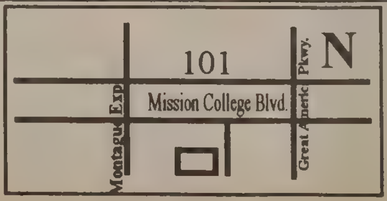

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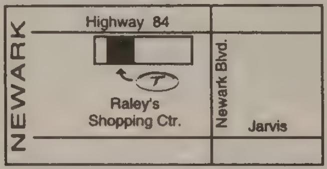
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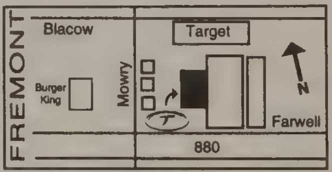
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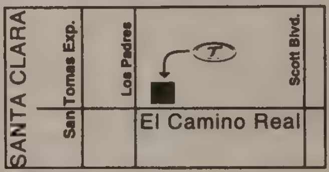
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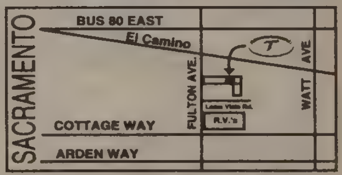
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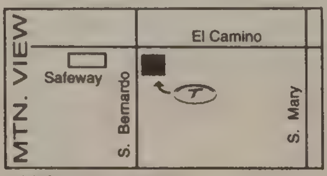
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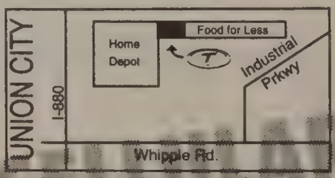
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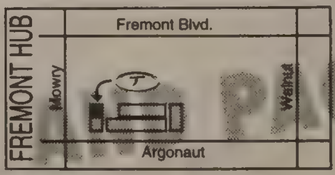
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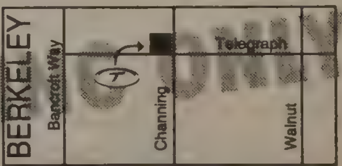
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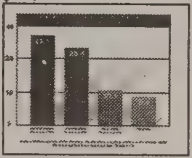

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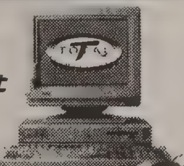

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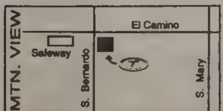

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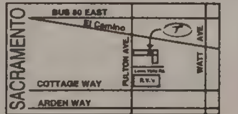

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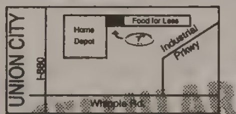

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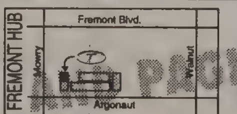

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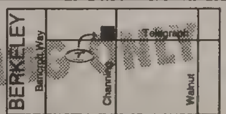

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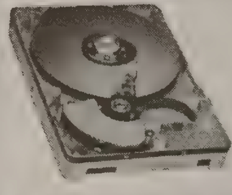

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- ◆ 500,000 Hours MTBF

$288 External .. $325

IDE & FAST SCSI-2 DRIVES

Deskstar XP Family-(MR Head Technology/3 Yr Warr)

				INT	EXT
528MB	06H7142	12ms	IDE	$189	$N/A
540MB	06H8559	12ms	SCSI	$218	$268
1.0GB	DPES31080	10.5ms	SCSI	$288	$325

Satsuma Family-(3 Year Warranty)

				INT	EXT
728MB	94G2647	12ms	SCSI	$269	$319

Ultastar XP Family-(MR Head Technology/5 Yr Warr)

				INT	EXT
2.3GB	94G3192	7.5ms	7200RPM	$1040	$1110
4.5GB	94G3198	8ms	7200RPM	$1678	$1748
5.1GB	06H8431	8ms	Audio Video	$1899	$1969
5.3GB	94G3794	7.5ms	7200RPM	$1909	$1979

MICROPOLIS

1.7GB AUDIO VIDEO FAST SCSI-2

- ◆ Model# MC2217AV
- ◆ 5 YEAR WARRANTY
- ◆ 9.5ms FAST, 5400RPM.
- ◆ 512K Cache Buffer
- ◆ 800,000 Hours MTBF

$659 External .. $699

FAST SCSI-2 DRIVES

				INT	EXT
1.75GB	MC2217	10ms	3.5"	$639	$679
2.0GB	MC4221	8.5ms	3.5"x1"	$712	$833
4.0GB	MC3243	8.5ms	3.5"	$1128	$1115
9.1GB	MC1991	11ms	5 25"	$2085	$2115

Audio Video FAST SCSI-2

				INT	EXT
1.75GB	MC2217AV	10ms	3.5"	$659	$699
2.0GB	MC4221AV	8.5ms	1"	$848	$896
4.0GB	MC3243AV	8.5ms	3.5"	$1194	$1223
9.1GB	MC1991AV	11ms	5.25"	$2395	$2278

Seagate

4.3GB FAST SCSI-2

- ◆ Model# ST15230N
- ◆ 5 YEAR WARRANTY
- ◆ 9ms FAST, 5411 RPM.
- ◆ 512K Cache Buffer
- ◆ 800,000 Hours MTBF

$999 External .. $1069

Enhanced IDE DRIVES

545MB	ST3660A	14ms	Fast ATA	$175
850MB	ST5850A	12ms	Fast ATA-2	$210
1.08GB	ST51080A	12ms	Fast ATA-2	$230
1.63GB	ST31640A	NEW	Fast ATA-2	$Call
2.14GB	ST32140A	NEW	Fast ATA-2	$Call

FAST SCSI-2 DRIVES

Hawk Series-(5411RPM/512K Cache/5 Yr Warr)

				INT	EXT
1.0GB	ST31231N	9ms	3.5"x1"	$399	$445
2.1GB	ST32430N	9ms	3.5"x1"	$659	$786
4.3GB	ST15230N	9ms	3.5"	$999	$1069

Barracuda Series-(7200RPM/8ms Avg Seek/5 Yr Warr)

				INT	EXT
2.1GB	ST32550N	512K Cache 3.5"x1"		$799	$921
4.3GB	ST15150N	1MB Cache 3.5"		$1329	$1399

Elite Series-(5,400RPM/1MB Cache/5 Yr Warranty)

				INT	EXT
9.0GB	ST410800N	11ms	5.25"	$2277	$2524

CONNER

2.1GB FAST SCSI-2

- ◆ Model# CFP2105S
- ◆ 5 YEAR WARRANTY
- ◆ <9ms FAST, 5400 RPM.
- ◆ 512K Cache Buffer
- ◆ Up to 1,000,000 Hours MTBF

$628 External .. $659

Enhanced IDE DRIVES

FileProSeries-(3,600RPM/64K Cache/1-3 Yr Warranty)

540MB	CFS541A	<15ms	3.5"x1"	$172
850MB	CFS850A	<15ms	3.5"x1"	$195
1.27GB	CFS1275A	<15ms	3.5"x1"	$261

FilePro Advantage Series-(4,500RPM/256K Cache/up to16.7MB/s Data Trans Rate / 1-3 Yr Warranty)

850MB	CFA850A	<12ms	3.5"x1"	$Call
1.27GB	CFA1275A	<12ms	3.5"x1"	$299

FAST SCSI-2 DRIVES

FilePro Series-(5,400RPM/512K Cache/5 Yr Warr)

				INT	EXT
1.0GB	CFP1060S	9ms	3.5"x1"	$299	$349

FilePro Performance-(512K Cache/5 Yr Warr)

				INT	EXT
1.0GB	CFP1080S	11ms	5400RPM	$285	$335
2.1GB	CFP2105S	8.5ms	5400RPM	$628	$659
2.1GB	CFP2107S	8.5ms	7200RPM	$715	$848
4.2GB	CFP4207S	9ms	7200RPM	$1045	$1115

HEWLETT PACKARD

1.2GB FAST SCSI-2

- ◆ Model# C3724S
- ◆ 5 YEAR WARRANTY
- ◆ 9.5ms FAST, 5400RPM.
- ◆ 512K Cache Buffer
- ◆ 800,000 Hours MTBF

$298 External .. $359

ENHANCED IDE DRIVES

1.08GB	C5270A	12ms	3.5"x1"	$274
1.6GB	C5271A	12ms	3.5"x1"	$347

FAST SCSI-2 DRIVES

				INT	EXT
1.2GB	C3724S	9.5ms	3.5"x1"	$298	$359
2.17GB	C3725S	9.5ms	3.5"x1"	$682	$739

Maxtor

1.6GB ENHANCED IDE

- ◆ Model# 71626AP
- ◆ 2 YEAR WARRANTY
- ◆ <12ms FAST, 4500 RPM.
- ◆ 128K Cache Buffer
- ◆ 300,000 Hours MTBF

$295

Enhanced IDE DRIVES

540MB	7541AV	12ms	3.5"x1"	$182
850MB	7850AV	12ms	3.5"x1"	$208
1.2GB	71260A	<12ms	3.5"x1"	$277
1.6GB	71626A	<12ms	3.5"x1"	$295

Audio Video

IDE

WESTERN DIGITAL

1.0GB FAST ATA-2

- ◆ Model# AC21000HT
- ◆ 3 YEAR WARRANTY
- ◆ 10ms FAST, 4500 RPM.
- ◆ 128K Cache Buffer
- ◆ 250,000 Hours MTBF

$235

Enhanced IDE DRIVES

635MB	AC2635	*NEW*	3.5"x1"	$186
850MB	AC2850	<10ms	3.5"x1"	$199
1.0GB	AC21000	*NEW*	3.5"x1"	$235
1.28GB	AC31200	<10ms	3.5"x1"	$298
1.6GB	AC31600	<10ms	*NEW*	$349

IDE

FUJITSU

540MB FAST SCSI-2

- ◆ Model# M1603SAU
- ◆ 3 YEAR WARRANTY
- ◆ 10ms FAST, 5400 RPM.
- ◆ 512K Cache Buffer
- ◆ 300,000 Hours MTBF

$190 External .. $249

Enhanced IDE DRIVES

M160x Series-(5,400RPM/512K Cache/3 Yr Warranty)

540MB	M1603TAU	10ms	PIO 4	$163
1.08GB	M1606TAU	10ms	PIO 4	$231

FAST SCSI-2 DRIVES

M160x Series-(5,400RPM/512K Cache/3 Yr Warranty)

				INT	EXT
540MB	M1603SAU	10ms	3.5"x1"	$190	$239
1.08GB	M1606SAU	10ms	3.5"x1"	$279	$329

Allegro Series-(7,200RPM/512K Cache/MR Head Tech)

				INT	EXT
2.17GB	M2915SA	9ms	3.5"x1"	$659	$712
4.3GB	M2934SA	10ms	3.5"x1"	$988	$1139

FAST WIDE

Seagate

				INT	EXT
1.0GB	ST31230W	9ms	3.5"x1"	$589	$769
2.1GB	ST32430W	9ms	3.5"x1"	$699	$959
2.1GB	ST32550W	8ms	3.5"x1"	$843	$1079
4.3GB	ST15230W	9ms	3.5"	$1091	$1222
4 3GB	ST15150W	8ms	3.5"	$1329	$1526
9 0GB	ST410800W	11ms	5.25"	$2384	$2529

FAST WIDE DIFFERENTIAL

				INT	EXT
4.3GB	ST15150WD	8ms	3.5"	$1399	$1649
9.0GB	ST410800WD	11ms	5.25"	$2519	$2819

Quantum

				INT	EXT
2.1GB	XP32150W	8ms	3.5"x1"	$895	$1089
2.2GB	VP32201W	8.5ms	3.5"x1"	$799	$979
4.3GB	GP34301W	8.6ms	3.5"	$1141	$1259
4.3GB	XP34300W	8ms	3.5"	$1262	$1479

MICROPOLIS

				INT	EXT
2.0GB	MC4221W	8.5ms	3.5"x1"	$899	$1159
4.0GB	MC3243W	8.5ms	3.5"	$1264	$1379
9.1GB	MC1991W	11ms	5.25"	$2399	$2589

Audio Video FAST WIDE

				INT	EXT
2.0GB	MC4221WAV	8.5ms	3.5"x1"	$970	$1124
4.0GB	MC3243WAV	8.5ms	3.5"	$1322	$1466
9.1GB	MC1991WAV	11ms	5.25"	$2530	$2667

FAST WIDE DIFFERENTIAL

				INT	EXT
2.0GB	MC4221WD	8.5ms	3.5"x1"	$959	$1209
4.0GB	MC3243WD	8.5ms	3.5"	$1329	$1579

CONNER

				INT	EXT
1.0GB	CFP1060W	9ms	3.5"x1"	$599	$779
2.1GB	CFP2105W	8.5ms	5400RPM	$759	$939
2.1GB	CFP2107W	8.5ms	7200RPM	$776	$1059
4.2GB	CFP4207W	9ms	7200RPM	$1332	$1369

FLOPPY DRIVES

TEAC

FD-55	5.25"	1.2MB	w/Bracket $44
FD-235	3.5"	1.44MB	$32
FD-235B	3.5"	1.44MB	$36
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Tahiti-3M	1MB Cache buffer	$1789/$1889
Tahiti-3M	4MB Cache buffer	$1966/$2066
1.3GB Cart	(512 or 1024b Sector) Glass/Poly	$129/$89

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Rewwitable Optical Drives INT/EXT

C1716T	1.3GB 5.25" INT/EXT	$1939/$1985
C2550A	1.3GB 5.25" External	$2233
C1100A	20GB Ext Juke Box (20XT)	$4589
1.3GB(1024b/s) or 1.2GB(512b/s) cartridge		$79

FUJITSU

DynaMO M2512 230MB 3.5" Drives

2512A/2512B Internal 230MB Unit	$408/$524
External with 230MB Cart for PC	$569
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1.3 PC	External w/Adaptec Interface	$1739
1.3 PCAN	External for PC (no Interface)	$1659
1.3 PCi	Internal w/Adaptec Interface	$1729

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1.3GB External 5.25" Removable MO	$1918

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TOSHIBA

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540MB	MK1924FCV	13ms	12.7mm	Up to	$299
810MB	MK1926FCV	13ms	12.7mm	16.6MB/s	$425
1.3GB	MK2720FC	NEW	19mm	Trans. Rate	$599

Quantum

Daytona Series - (4,500RPM/128K Cache/1 Yr Warr)

341MB	DY341AT	17ms	IDE	$Call
514MB	DY514AT	17ms	IDE	$Call
341MB	DY341S	17ms	SCSI	$299
514MB	DY514S	17ms	SCSI	$435

Europa Series - (4,500RPM/128K Cache/1 Yr Warr)

540MB	20540EUA	17ms	IDE	$334
810MB	20810EUA	17ms	IDE	$457
1.08GB	21080EUA	17ms	IDE	$522

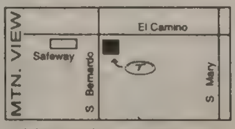
Seagate

262MB	ST9300AG	16ms	IDE	19mm	$294
420MB	ST9420AG	16ms	IDE	19mm	$322
455MB	ST9550AG	16ms	IDE	19mm	$399
524MB	ST9655AG	16ms	IDE	19mm	$342
810MB	ST9816AG	16ms	IDE	19mm	$499

Removables

SyQuest

135MB	EZ135P	3.5"	PC	Ext Parallel	$Call
200MB	SQ5200S	5.25"	SCSI		$358
200MB	SQ5200SE	5.25"	SCSI	Ext w/cart	$499
200MB	SQ5200SEM	5.25"	SCSI	Ext for Mac	$508
270MB	SQ3270A	3.5"	IDE		$339
270MB	SQ3270S	3.5"	SCSI		$338
270MB	SQ3270SE	3.5"	SCSI	Ext w/cart.	$439
270MB	SQ3270SEM	3.5"	SCSI	Ext for Mac	$452
270MB	SQ3270SEP	3.5"	PC	Ext Parallel	$589



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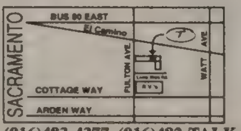

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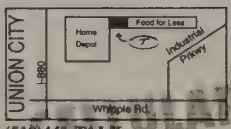

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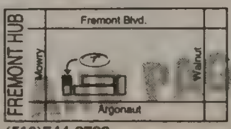

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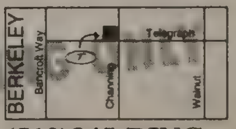

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35480A	4-8GB 3.5" up to 732kb/sec DDS	$829/$899
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HP-BKT	HP 5.25" Bracket for 3.5" DAT Units	$27

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4324NP	4GB Turbo-22MB/min 1MB Cache-INT	$799
4326NP	4-8GB 5MB/sec 1MB Cache -INT	$893
4584NP	Int 16GB (Auto Loader DAT)	$2168

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TS850	850MB (QIC WIDE) Floppy Port	$196
TS850P	850MB (QIC WIDE) Parallel Port	$323
TS1700	1.7GB (QIC WIDE)-w/Floppy Cont	$219
TS3200	3.2GB TRAVAN3-w/Floppy Cont	$270
TS4000A	4.0GB (QIC WIDE)-IDE w/Card	$377
TS4000	4.0GB (QIC WIDE)-SCSI	$379
TS4000E	4.0GB (QIC WIDE)-SCSI External	$449

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DJ20	250MB (JUMBO 250)	$129
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DJ25	680MB (JUMBO 700)	$185
T1000	800MB HP Colorado TRAVAN	$174
DJ50	1.4GB (JUMBO 1400) *NEW*	$237

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PT25	2.0GB	SCSI-2	1/4"	$963	$1089
PT50	4.0GB	SCSI-2	1/4"	$1150	$1199
PD60	2-4GB	SCSI-2	DAT	$994	$1089

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External w/Corel CD Creator & Adaptec adapter	$2949
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HEWLETT PACKARD

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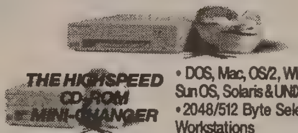
TEAC

CD-56E
INTERNAL 6X-SPEED, E-IDE
ATAPI CD-ROM Drive .... $

CD-55A
INTERNAL QUAD-SPEED, IDE
195ms Seek .... $



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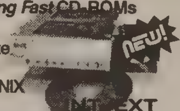

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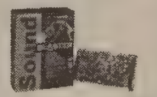

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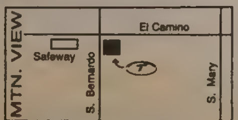

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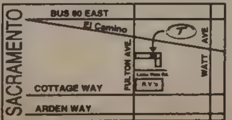

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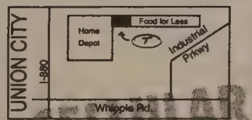

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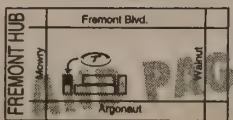

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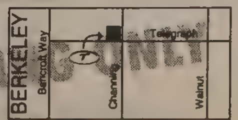

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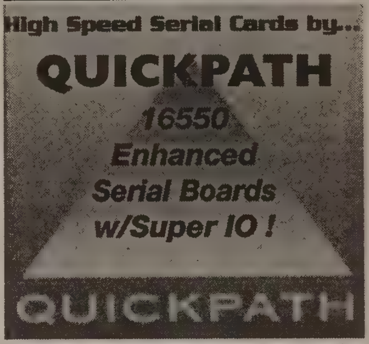
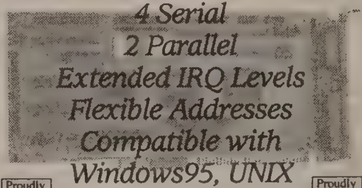


"High Speed Communication Cards"



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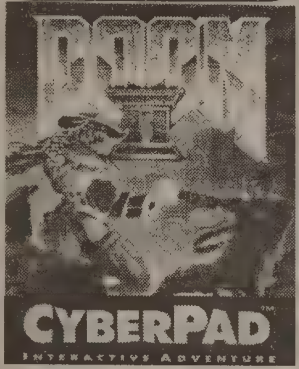
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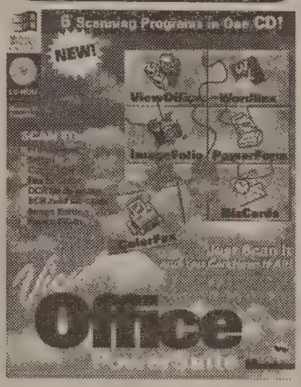
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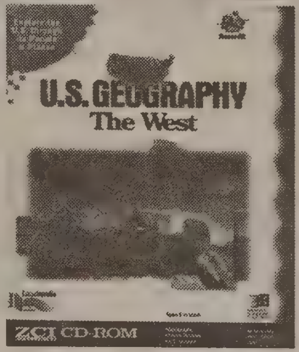
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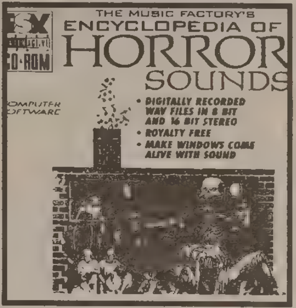
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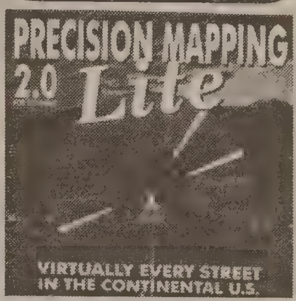
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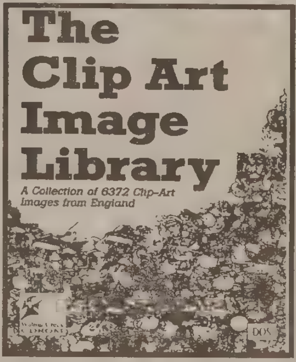
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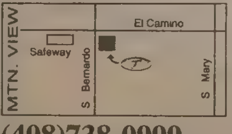
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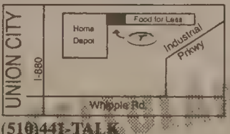
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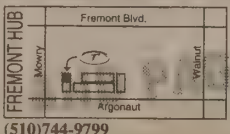
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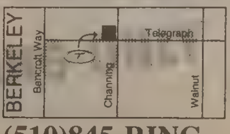
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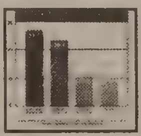

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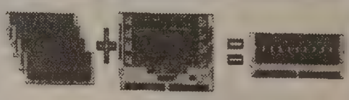

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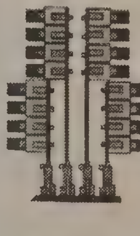

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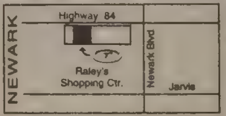

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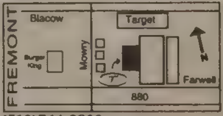

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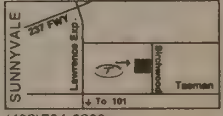

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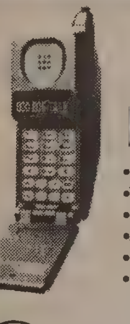

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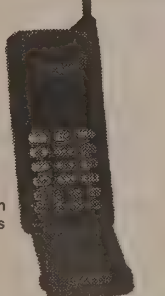

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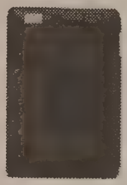

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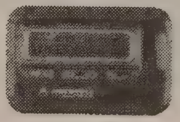

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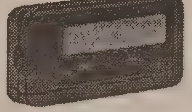

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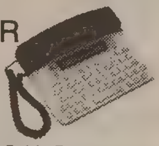

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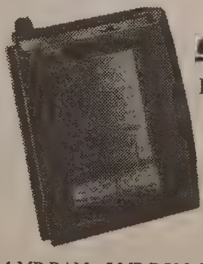

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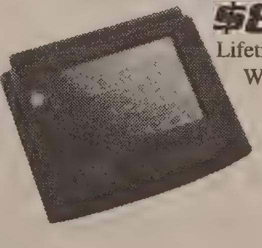

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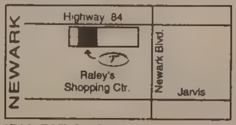

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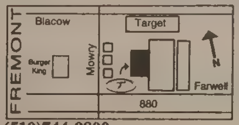

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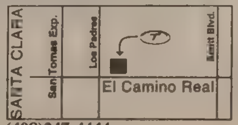

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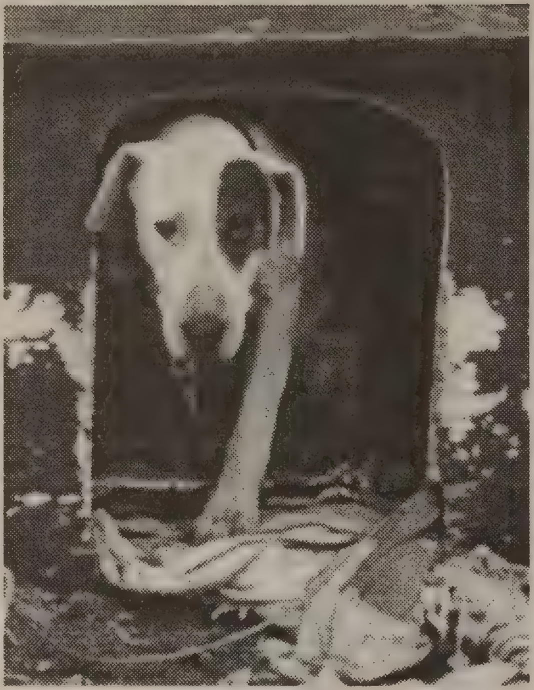

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- Pets are attracted to warm engines from parked cars and often will crawl under them. Leaked antifreeze if ingested by your pet can be deadly. Take precautions against these dangerous conditions.

HSUS

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MULTIMEDIA 101

continued from page 234

1978 was, if I recall right (and I don't guarantee the exact year but it was around then), a year of major record business recession, as well as bad for the economy as a whole. The big labels, having totally missed out on the punk and new wave stuff that people really wanted to hear, decided to cut their losses by trimming costs. Suddenly album sleeves stopped being gatefolds with fold-out, die-cut, 3-D, miniature stage sets or spiral wheels of multiple tiny objects revealed as they passed beneath little cut-out windows or giant fake lighters or transparent partially printed plastic so you could see the paper sleeve underneath. Oh! those were the days I tell you!

True, those were the highlights, not typical releases, but the run of the mill was a gatefold with lavish graphic design and printing. So, anyway, in 1978 double sleeves suddenly became single jackets of thin cardboard (and when I was a teenager in England, one of the cool things about American imports was the thick, rigid cardboard sleeves). Thus, extravagant LP sleeves were simple business casualties of a couple of bad years. About five years later CDs started coming out, and about five years after that CDs really began to move twelve-inch LPs off the retail shelf space—and all that time albums were coming out with crummy, cheap sleeves. No cause and effect between the two events.

Now, when you get down to the bottom line, it's cheaper to design and print a piece of paper than do anything elaborate or worthwhile with digital multimedia. So, given the fundamental economic issue, do you think "expanded sleeve notes" are going to survive the next serious economic downturn or cost-cutting purge in the record business? With their limited promotional value (as opposed to videos), do you think that major labels will think they're worthwhile for artists, other than their surefire blockbuster artists who have almost guaranteed sales?

The other misconception in the "restoring the lost art" marketing pitch is that there's nothing a talented designer can do with a CD package. Absolute rubbish! With some imagination, there are loads of things that can be done to wrap up a CD besides just sticking a simple four panels and a backing slip in a jewel case. Even the jewel case with its standard replaceability (albeit now in several styles and colors) has its appeal when it comes to protecting a nice design from the inevitable scuffs, but many of the nicer designs come naked, so to speak.

These two basic misconceptions make me immediately suspicious of all the other claims made for CD Plus because, when you examine them from these historical or design perspectives, they mean nothing. They're simply marketing hype designed to exploit consumers' gullibility, amnesia, and desire for a return to the good old days.

Some optimists have said words to the effect of, "In [pick a time period from one year to five years] all releases will be enhanced with a data track in some way." Some cynics claim that the real strategy of the record labels is to raise the list price of CDs by $5 or so to pay for the "enhancements." This I can believe.

After all, ultimately the record labels wouldn't be taking much of a risk 'cos you know who'll really be paying for them—the artists. The costs will be another figure in their advances, another millstone around their necks as they struggle to get out of debt to the corporation. For already successful artists this won't perhaps mean much—but for breaking acts it could mean the difference between success and slavery.

I predict that there will be strong consumer resistance to large price

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MULTIMEDIA 101 *continued...*

increases—CDs are already overpriced. It seems unlikely that the retailing robots (I mean the powerful chains) will go for two SKUs for each title.

No, the numbers and claims just don't add up under the present scenario. The only way I see these "enhancements" working economically is if they can become genuinely promotional and helpful for the artists and be served off a Web site or some other mass distribution system—and then what consumer is going to want to pay for them, beyond perhaps a standard monthly fee *a la* cable?

The artistic considerations are also daunting. Firstly, musical artists are mostly good at music—not multimedia. Thus, there's a handoff to someone else to do the work, someone who may or may not produce something worthwhile; it's a risk that notoriously finicky musicians, those who make music for reasons other than it being a good career move, should carefully consider. Obviously some musicians will take to multimedia like ducks to water—but they'll soon be multimedia artists, not musicians, and will quickly find that they really want to do full-scale CD-ROMs rather than be penned in by the limited digital space between the Red Book and the capacity of the disc.

I shouldn't condemn the future by damning the failures of the past, but ten-second interview clips, bios, grainy home video from the tour bus, "rare" live performances, virtual environments, and discographies are simply not satisfying for any but the most rabid fans. How many times can you look at that stuff? How many times can you listen to a favorite piece of music? There has to be a better balance between the music and the multimedia in terms of appeal and repeatability.

If one could actually listen to the music (the real music, not a short loop) and check out the data track at the same time, it would be a dramatic improvement. Once the great unwashed, gullible as they often are, discover how little there is to most "enhancements," they'll spend their money and time somewhere else.

Lastly, consider the way recorded music is actually consumed. Be honest—much of the time it's background to doing something else. There's no time to indulge in focused attention on the peripherals. For the most part, even those glamorous gatefold sleeves weren't looked at much after the initial few plays—although I recall that they were frequently used for rolling herbal combustible concoctions on, something else that Enhanced CDs won't bring back.

Sitting in front of your computer, fiddling with a few layers of content, and only being able to listen to a portion of the music is just not the way most people want to spend their time. Enhanced CDs are a gimmick. The music industry loves gimmicks, but what it needs is better music. What multimedia needs is better ideas. The shining moment of truth in the music business was Public Enemy's exhortation, "Don't believe the hype." Remember it now more than ever. ■

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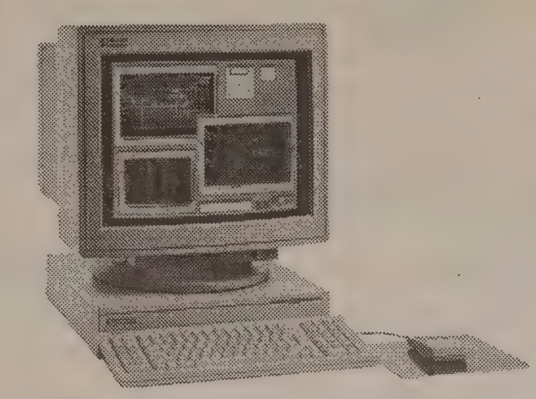

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10 BaseT 8/16 Port Hub	125/279
SMC 16-bit (Coax/10BaseT)	105
Pocket LAN Card	99
3 Com 3C509 Ethernet III (Combo)	105
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Ascend Multiband	CALL
AVM ISDN Adapter/Router	CALL
Motorola Ext ISDN Modem w/NTI	290

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- •FCC Class B
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PENTIUM®/133 MHz (Intel Triton Chipset, PCI) 256K Pipeline Cache	2240
PENTIUM®/120 MHz (Intel Triton Chipset, PCI) 256K Pipeline Cache	2035
PENTIUM®/100 MHz (Intel Triton Chipset, PCI) 256K Pipeline Cache	1970
PENTIUM®/90 MHz (Intel Triton Chipset, PCI) 256K Pipeline Cache	1915
486DX4/100 MHz (Intel CPU, PCI)	1699
Upgrade to SCSI System (Controller, HD, CD-ROM)	95
Other Upgrades (Video Card, Monitor, Hard Drive)	Call
Upgrade to EDO Memory & Pipeline Cache	80

Optional Pre-Installed S/W (with System Purchased Only)

1. MS DOS 6.22	$39
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3. MS Windows 95	99
4. MS Windows NT Station	250
5. MS Windows NT Server	575
6. MS Office Professional	325
7. OS/2 Warp	74
8. Linux	15
9. Unix Ware PE	300
10. Solaris 2.4	475
11. SCO OpenServer Desktop	595
12. X-Kit/NFS	150
13. NextStep	575

External SCSI Device for SPARC/PC/MAC:

1/2 GB SCSI HD	$385/780
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250MB 1/4" SCSI Tape Drive	375
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4-8 GB 4mm DAT Drive	975
HP 8-16 GB 4mm DAT Drive	1195
ExaByte 2.5 GB 8mm Tape Dr.	1450
ExaByte 5 GB 8mm Tape Dr.	2130

SCSI Controller:

Adaptec 1542CF (ISA)	$180
Adaptec 2842 (VLB)	220
Adaptec 2940C (PCI)	220
Adaptec 2940W W-SCSI (PCI)	255
Buslogic BT-445C (VLB)	205
Buslogic BT-946C (PCI)	185
Buslogic BT-946C W-SCSI	240
DPT 2022/95 (EISA)	340
DPT 2024/90 (PCI)	280
DPT Caching Module	400
NCR 53C810 (PCI)	60
NCR 53C825 W-SCSI (PCI)	130

Multimedia-FREE Installation

CD-ROMS

NEC 4X (SCSI) w/2 CD's	$229
NEC 6X (SCSI)	350
Mitsumi/Toshiba 4X (IDE)	150
Toshiba 3701-B 4X SCSI	325
Toshiba 5301 4X SCSI	215
Sanyo 4X CD-ROM	169
CD-ROM Ext. Kit	70

SOUND CARDS

Sound Blaster 16	$80
Sound Blaster 16 ASP	135
Sound Blaster SCSI II	112
Sound Blaster SCSI II/ASP	157
Sound Blaster AWE 32	152
80 Watts Stereo Speakers	40
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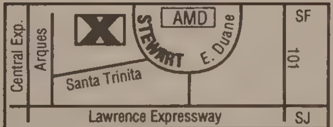

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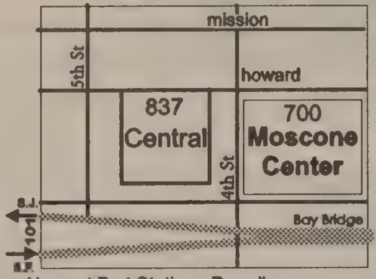

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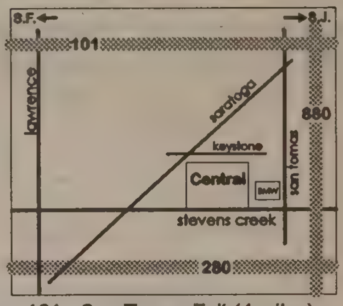

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Microsoft Serial Mouse

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Keytronic 101 Keyboard
Western Digital 635MB IDE Hard Drive
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SRC-1502 15" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Multimedia Upgrades*

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Keytronic 101 Keyboard
Western Digital 635MB IDE Hard Drive
Diamond Stealth 64 2MB PCI DRAM VGA
SRC-1502 15" 1280 x 1028 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Multimedia Upgrades*

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SUPER P54CMS 586-90 / 100 PCI **$1659/$1699**

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Pentium SCSI Station

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CPU Cooling Fan
8MB RAM EDO (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
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Adaptec 2940 SCSI Board w. Kit
Mid Tower Case w. 230W Power
Keytronic 101 Keyboard
Quantum 1GB SCSI Hard Drive
Diamond Stealth 64 2MB PCI DRAM VGA
SRC-1502 15" 1280 x1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Multimedia Upgrades*

MICRONICS M54PI 586-90 3PCI **$2019**

INTEL ZP 586-90 / 100 PCI Triton **$1975/$2015**

SUPER P55CMS 586-90 / 100 PCI **$1999/$2039**

Central Systems #6
Pentium CAD Station

586-100MHz Pentium CPU
CPU Cooling Fan
16MB RAM EDO (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O
Mid Tower Case w. 230W Power
Keytronic 101 Keyboard
Conner or Maxtor 1.6GB IDE Hard Drive
Diamond Stealth 64 2MB DRAM PCI Card
SRC-1502 15" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Multimedia Upgrades*

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SUPER P55CMS 586-100 / 133PCI Triton **$2079/$2329**

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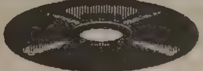
CD DRIVE / SOUND CARD



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SB 16 Vibra, Plug & Play	84
SB 16 MCD oem / w. ASP	84/95
SB 16 SCSI-2 oem / w. ASP	109/*(115)
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Sound Blaster 32 IDE	155
Sound Blaster AWE 32 w. ASP	235
Video Blaster MP-400	255
Wave Blaster II	135

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NEC

4Xi-511 4 Speed Int	225
6Xi 6 Speed Int oem / reg.	319/355
C301 7 Changer 2X Ext	*(125)
Interface Kit w. 16 bit AT SCSI	69

PANASONIC

CR-581 4 Speed IDE Int	*(125)

PIONEER

4 Speed, 150ms, 614Kb/s, IDE Int	*(135)
4 Speed, 150ms, 676Kb/s, SCSI Int	235

PLEXTOR

PX-43CH 220ms, 600Kb/s, 256k, 4X Int	265
PX-63CS 145ms, 900Kb/s, 256k, 6X Int	369

SONY

CDU-77E 4X 250ms, 600Kb/s, IDE Int	*(125)
CSD-760S 4X SCSI / w. Adaptec Kit	179/269
PRD-150 Portable 2X w. PCMCIA Kit	345

TEAC

CD56E 6X IDE Int	*(175)

TOSHIBA

3701B 6X SCSI Int	329
XM-5302B 4 Speed IDE Int	*(129)

TURTLE BEACH

Monte Carlo Game Card	95
Monterey Multisound	329
Tropez Sound Card	225

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CD Carring Case (holds 40 CDs)	19.95
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CD Pop-Out Storage Case (holds 30 CDs)	19.99
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Media Vision : Jazz 16 SCSI Sound Card	*(59)
Microphone / Headphone	7.99/3.99
Wav Jammer 16 bit Stereo PCMCIA	275

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Diamond 4400 4X CD Kit w. 20 titles	275
Diamond 800 8X CD Kit w. 1 title	365
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Diamond 8000 8X CD Kit w. 5 titles	545
Panasonic 4X + IDE Sound Card + 60W Speakers	299
Sony 4X + 16 IDE Sound Card + Labtec Speakers	199
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SB Discovery 16 2X CD Kit w. 18 titles	229
SB Discovery 4X CD Kit w. 15 titles	299
SB Edutainment 2X CD 16 w. 42 titles	325
SB Multimedia Office 2X Kit	*(379)
Turtle Beach TBS-810 4X CD + 16 Sound w. titles	249
Turtle Beach TBS-6600 6X CD + 16 Sound w. titles	345
Turtle Beach TBS-8800 8X CD + 16 Sound w. titles	465

Rewritable CD Drives :

HP Sure Store CD Writer C4324A, read 4X, write 2X	*(999)
Kodak PCD-Writer 225 Ext	1895
- Writable CD (74 min.)	8.95
JVC CD Writer (w. Adaptec, cable, software) - 2X Int / 2X Ext / 4X Ext	1875/2050/4165
Philip CDD-522 2X Int (w. software)	2145
Ricoh 2X Int (w. software)	1575
Yamaha CDR-100 4X Int / Ext	2350/2575

Speakers :

Active 75 (80W) / Active SP-690	45/33
Altec ACS52 / ACS53	95/125
Altec ACS150 / ACS300.1	99/199
EP-68 (70W) / EP-88 (80W)	33/39
EP-120 (120W) / EP-280 (40W)	49/29
JAZZ J-306 5W RMS per Channel	39
JAZZ J-590 14W RMS per Channel	75
JAZZ J-688 14W RMS per Channel	99
JAZZ J-902S 18W RMS per Channel	119
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PC-60 Multimedia (4W)	7.50
QIC-8803 Amplied Speakers (100W)	42
Yamaha YST-M5 / YSTM-10 (10W)	28/*(59.95)
- YST: 25W / 31W / 45W	155/185/215

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2742AT SCSI EISA w. Kit	365
2842AK SCSI VLB w. Kit	229
2940 SCSI PCI w. Kit oem / reg	219/259
2940W Wide-SCSI PCI Kit w. wide int cable.	269
2940UW Ultra Wide-SCSI PCI w. Kit	309
AHA3940 PCI Multi-Channel SCSI	399
APA1460 Slim PCMCIA SCSI	185
ASW-EZ SCSI 3.1 for Dos & Windows	69
T348K Parallel to SCSI Adapter	119
T358K EPP Parallel to SCSI Adapter	145

BUSLOGIC

KT410A IDE Cache VLB	119
KT445C SCSI VLB w. Kit	199
KT542B SCSI-2 w. Kit	209
KT757C Fast SCSI-2 & Wide-SCSI EISA w. Kit	379
KT910A IDE Cache PCI w. Kit	169
KT946C SCSI PCI w. Kit (supports 8GB HD)	189

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Corel SCSI Software v2.0	85

DTC

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TMC-1660 SVP (SCSI Value Pack)	127
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TMC-3260 PCI / SVP	129/165

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KW557A IDE/ 1.44/ 2S(FiFo)/ ECP/ 1G	29
KW558A VLB IDE/ 2.88/ 2S(FiFo)/ 1P1G/ ECP/ EPP.	34
KW560C VLB EIDE/ FDC/ 2S 1P 1G	35
KW560D VLB EIDE/ 2.88/ 2S(FiFo)/ 1P/ ECP/ EPP	39
KW602B EIDE PCI	32

NEW MEDIA

PCMCIA Bustoaster SCSI	215
PCMCIA Bustoaster SCSI-2	219

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DC-4030VL IDE VLB, cache up to 16MB	99
DC-5030 IDE PCI	129
EIDE 2300 Plus IDE/ 4HD/ 2S 1P/ 16550	59
EIDE MAX Enhanced IDE ISA only	32

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Fast SCSI EISA w. Kit / Fast SCSI VLB Kit	199/189
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SC-JE0012 EIDE 4HD 16 bit ISA	39
SC-JE4012 EIDE 4HD/ 2FD 16 bit ISA	59
SC-VKA4ZZ EIDE 4HD/ 2FD/ 2 Fast Serial/ high speed ECP/P / 1 Game VLB	89

VITEX

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IDE w. 4FD/ 2.88/ Drivers Tape/ 1.0 Mbps	29
VL3208 EIDE w. 4HD/ 2FD/ 16550/ VLB	39

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ASUS SC200 SCSI-2 PCI (w. NCR chips)	85
IDE w. I/O (2S 1P) / IDE w. I/O VLB	19.50/29
IDE w. I/O (2S 1P) PCI w. 16550 chips	45

CPU

AMD

486-DX2-66 / 486-DX2-80	45/55
486-DX4-100 / 486-DX4-120	95/109

INTEL

486-DX-33 / 486-DX2-66.	89/95
Over Drive 486-DX2-66	79
486-DX4-100	109
586-75MHz Pentium	185
586-90MHz Pentium	269
586-100MHz Pentium	309
586-120MHz Pentium	359
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Art Z II 12x12, w. Erasing Ultra Pen for PC / MAC	435/439
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UP-201 Pressure Stylus	49.95
UP-701E Erasing Ultra Pen	69.95

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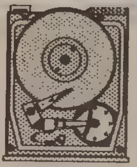

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TEAC

1.2MB 5.25"	43
1.44MB 3.5" / w. frame / Black	33/37/45
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CFS-850A 850MB 15ms 64k IDE 1" ht	195
CFP-1060S 1.08GB 10ms 256k SCSI-2	*(249)
CFS-1621A 1.6GB 14ms IDE 1" ht	285
CFP-2105S 2.1GB 8.5ms 256k Fast-SCSI-2	599

FUJITSU (2 yr. warranty)

M2684SAU 540MB 12ms 256k SCSI 1" ht	179
M1606SAU 1GB 9ms 512k SCSI	299

HP

3724S 1.2GB 9.5ms SCSI-2	309
3725S 2.14GB 8.9ms SCSI-2	679

KINGSTON

PCMCIA 260MB IDE	545

MAXTOR

MXT-7850A 850MB 12ms 32k IDE	195
MXT-71626A 1.6GB 12ms 128k IDE	295

MICROPOLIS

MC-4221 2.1GB 9ms 512k 1/2 ht	699
MC-3243 4GB 8.5ms 512k 3.5" ht	1125
MC-1991 9GB 12ms 5.25"	2065

NEW MEDIA

PCMCIA 105MB IDE / 170MB IDE.	419/449
PCMCIA 260MB IDE	589

QUANTUM

FB-1080S 1GB 12ms 128k SCSI-3	*(259)
TR-840A 840MB 14ms 128k IDE	195
TR-840S 840MB 14ms 128k SCSI	235
Capella VP32210S 2GB 8ms 5400rpm SCSI-2	645
Atlas XP-32150S 2GB 8ms 7200rpm SCSI-2	759
Grandprix XP-34301 4GB SCSI	979

SAMSUNG

PLS-30854A 850MB 11ms 256k IDE	209
PLS-31274A 1.27GB 11ms 256k IDE	275

SEAGATE (5 yr. warranty for 1GB+)

ST-51080A 1GB 10.5ms IDE	235
ST-31230N 1.05GB 9ms 512k SCSI-2	359
ST-31230W 1.05GB Wide-SCSI	455
ST-32430N 2.14GB 9ms 512k Fast SCSI	659
ST-31430W 2.14GB 9ms 512k Wide-SCSI	799
ST-32550N 2.14GB 8ms 512k SCSI-2	799
ST-32550W 2.14GB Fast-wide SCSI	875
ST-15230N 4.3GB 9ms 512k SCSI	995
ST-410800N 9.0GB 11.5ms 1M SCSI	2199

TOSHIBA

PCMCIA 262MB IDE	485

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WD-2850 850MB 10ms 128k IDE	199
WD-2100 1GB 11ms 128k IDE	239
WD-31200 1.2GB 11ms 128k IDE	289
WD-31600 1.6GB 10ms 128k IDE	325

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105MB 3.5" w. cart., SCSI for Mac, Ext.	359
270MB 3.5" w. Kit, Int	375
270MB 3.5" Bare Drive, SCSI, Int oem	299
270MB 3.5" w. cart., printer port for PC, Ext.	439
105MB Cartridge / 270MB Cartridge	55/65

ZIP DRIVES :

IOMEGA

Zip Drive 100MB SCSI / Parallel	199/199
- Disk 100MB Single / 3-pk / 10-pk.	18.95/49.95/155

KEYBOARD

FOCUS

FK2001 101 Click	35
FK9000 129 Key Programmable	47

MICROSOFT

Natural Keyboard oem / reg	65/*(79)

NORTHGATE OMNI (5 yr warranty)

101NI	*(65)
102 Key	*(65)
Ultra T	*(75)
Ultra F	89

SIIG (5 yr warranty)

Minitouch (81-key click)	45
Supertouch 101 Click	53
Wave touch 101 Soft	39
Wintouch (for Win '95)	39
W104 (for Win '95)	29

OTHERS

ANCER 101 Key (black)	42
BTC 5100 Key Mini (80-key)	35
Keytronic 101	*(29)
Maxi 101	35
Maxi 124 Key	53
Mitsumi 101	29
Spill-resistant 101 Key	19.50
Unikey Natural Keyboard	42

I/O CARD

KOUWELL

KW524H 2S/1P/1G	22
KW524J 2S/2P	24
KW524L 2S(FiFo)/ 1P/ 1G	34
KW508-1 Single Parallel Port	12

QUICKPATH (16550)

FlexPort 42 4 serial / 2 Parallel (Bi-Dir.)	99
PortFolio 550E 13 Port multi. I/O (4 serial / 4 FDD / 2 Parallel / 2 IDE / 1G)	125

SIIG (5 yr. warranty)

(2S 1P) w. 16550 chips	35

STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15)	109

VITEX

AT I/O (2S 2P) w. 16550 chips	39

MEMORY

DRAM

256k x 4 - 70ns	5.50

SIMM

1 x 9 - 60ns / 70ns / 80ns	(1MB)	38/37/36
4 x 9 - 60ns / 70ns	(4MB)	149/145
16 x 9 - 70ns	(16MB)	609
1 x 36 - 60ns / 70ns	(4MB , 72 pin)	145/139
2 x 36 - 60ns / 70ns	(8MB , 72 pin)	279/275
4 x 36 - 60ns / 70ns	(16MB, 72 pin)	559/549
8 x 36 - 60ns	(32MB, 72 pin)	1209
EDO 1 x 32 - 60ns		129
EDO 2 x 32 - 60ns		249
EDO 4 x 32 - 60ns / 70-ns		549/555
Non Parity : 1 x 32 - 60ns / 70ns		119/115
Non Parity : 2 x 32 - 60ns		239
Simm Verter 30-pin to 72-pin converter		25

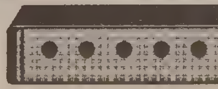
SIPP

1MB x 9 - 70ns (3 chips)	40

OTHERS

Memory for Computer, Laptop, Notebook, & Laser Printer upgrades	call

MODEM & FAX



BOCA

14.4 Fax Int / Ext	*(75/95)
14.4 Online Express Int / Ext	65/79
14.4 Pocket Fax	169
14.4 Voice Fax Modem Int / Ext	99/109
14.4 VSP Sound Express Fax Modem	*(155)
28.8 Fax Modem v.34 Int / Ext	*(155/199)

GARNET (5 yr warranty)

28.8 v.34 Fax Int	135

GVC (Maxtech)

14.4 Fax Int / Ext	*(49)/89
14.4 Fax Modem Voice Int	69
PCMCIA 9624 Fax	99
28.8 Fax Internal	149

HAYES

Accura 144 + Fax Int / Ext	*(87/105)
Accura 28.8 v.34 Fax Modem Int / Ext	195/215
ESP Communication : Single Port	85
ESP Communication : Dual Port	125
Optima 288 v.34 Fax Int / Ext	369/419
Optima 288 v.34 PCMCIA w. EZ jack	299

MEGAHERTZ

PCMCIA XJ1144 Fax (MNP5)	*(165)
PCMCIA XJ2144 Fax (MNP10)	*(199)
PCMCIA XJ2288 Fax	*(269)

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*(price)	SPECIALS / on SALE
(oem)	$, bunddled with hardware only

HAPPY NEW YEAR

CENTRAL
COMPUTER SYSTEMS, INC.
WIDE SELECTION AT LOW PRICES

SF STORE

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837 Howard Street, San Francisco CA 94103

New Year's Specials..... $ SALE $ $ SALE $ $ SALE $

MICROCOM

Deskporte 28.8S V.34 Fax Ext	189
Deskporte EP 28.8 V.34 Ext	229

MOTOROLA

BitSerfer ISDN Modem	289
BitSerfer TA210	**(265)*
BitSerfer Pro ISDN	**(375)*

PRACTICAL PERIPHERALS

Mini Tower 144 Ext	**(89)*
PC28.8 v.34 Fax, 230K DTE Int / Ext	269/285
PC28.8 v.34 Ext LCD	359
PM144FX144 Int	**(75)*
PM28.8 v.34 Int / Mini Tower Ext	**(169/185)*

PURE DATA

Satisfaxion 400 144/144 Fax Int	299
Satisfaxion 400e 144/96 Fax Ext	335

SHIVA

Net modem/E Ethernet BNC/TP	1475

SUPRA EXPRESS

28.8 Fax Modem, Plug & Play Int / Ext	**(129/159)*

US ROBOTICS

Courier v.34 28.8/14.4 Fax Int / Ext	395/425
Courier ISDN v.34 Int / Ext	435/469
Sportster 144/144 Fax MNP5 Int / Ext	89/105
Sportster 144/144 for Mac Ext	149
Sportster v.34 28.8/14.4 Fax Int / Ext	185/195
Sportster v.34 28.8/14.4 Fax for MAC	255
Sportster PCMCIA Fax v.34 28.8	**(289)*
Sportster Vi 144 Fax w. Voice Mail Int / Ext	109/125
Sportster Vi 288 Fax w. Voice Mail Int / Ext	209/225
Sportster Vi 28.8 v.34 w. DSVD Int	275

XIRCOM

CM-28 28.8 Fax PCMCIA	299

ZOOM (7 yr. warranty)

144 Fax Modem & Voice Int / Ext	**(105/159)*
28.8 V.34 14.4 Fax Int / Ext	156/199

ZY-XEL

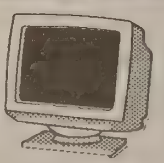
Elite 2864 28.8 Ext upgrade to ISDN	425
Omni 28.8 Ext Voice Serial	314
Omni 28.8 Ext Voice Parallel	315
U1496E 16 8 Voice 14.4 Fax, LED Ext	299

OTHERS

CommShare 550 Phone & Fax Auto-switch	75
CommShare 750 4 Port Switching	99
14.4 Fax Modem Int	59

MONITOR

Demos
displayed
for
Selection



CTX

145CLR 14" 1024 x 768 .28	269
156CLR 15" 1024 x 768 .28	379

EYE Q

SM1411 14" Flat Mono Amber	85
SM1418 14" SVGA Mono	99

HITACHI

CM1587M 15" Flat 1280 x 1024 .28 NI	379
CM1786M 17" 1280 x 1024 .28	669
CM2096 20" 1600 x 1200 .31	1265

IIYAMA

MF-8115 15" 1280 x 1024 .28	415
MF-8617E 17" 1600 x 1200, 69Hz, .26 NI	**(729)*
MT-9017E 17" 1600 x 1200, 72Hz, .25 NI	**(825)*
MF-8221E 21" 1600 x 1280, 76Hz, .28 NI	**(1755)*
MT-9021E 21" 1600 x 1280, 76Hz, .25 NI	**(1715)*

KFC

CT1428A 14" 1024 x 768 .28 NI	249
CA1507 15" Flat 1280 x 1024 .28 NI LED	375
CA1508 15" Flat 1280 x 1024 .28 NI LCD	389
CA1718 17" Flat 1280 x 1024 .26	685

MAG

DX15G 15" 1280 x 1024 .28 NI (no LED)	375
DX15T 15" 1280 x 1024 .26 NI	459
DX17F 17" 1280 x 1024 .26 NI (no LED)	689
DX17T 17" 1280 x 1024 .26 NI	779
MXP17F 17" Flat 1600 x 1280 .26 NI	**(849)*

MAXVISION

HL-7864 Deluxe 17" 1280 x 1024 .28 NI	595

NANAO

F2.15 15" Flat 1024 x 768 .28 NI	545
F2.17 17" 1280 x 1024 .28 NI	875
F2.17EX 17" 1600 x 1200 .26 NI	995
T2.17 17" 1280 x 1024 .25 NI, Trinitron	1285
T2.17TS 17" 1280 x 1024 .25, Diamondtron	1039
T2.20 20" 1600 x 1280 .30 NI, Trinitron	1925
F2.21 21" 1600 x 1280 .28	1879

NEC

XE15 15" 1024 x 768 .28	579
XV15 15" 1024 x 768 .28	**(465)*
XE17 17" 1024 x 768 .28 NI	1049
XP17 17" 1280 x 1024 .28 NI	1069
XV17 17" 1024 x 768 .28 NI	**(749)*
- Monitors Lens for 17XV / 17XE / 17XP	79/99/99
XE21 21" 1280 x 1024 .28 NI	**(1745)*
XP21 21" 1600 x 1200 .28 NI	**(2119)*

NOKIA

449E 15" 1280 x 1024 .28 NI	**(455)*
447L 17" 1024 x 768 .28 NI	689
447X-258 17" 1600 x 1280 .25 NI	975
445X 21" 1600 x 1280 .26	1945
445X 21" 1600 x 1280 .26 TCO	2055

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	**(249)*
1500D 14" 1280 x 1024 .28 NI	349
2000DC 15" 1280 x 1024 .27 NI	389

PANASONIC

C1791E 17" 1280 x 1024 .28 NI	**(689)*

PRINCETON

Ultra 15 15" 1280 x 1024 .28 NI	349
Ultra 17 17" 1280 x 1024 .28 NI	595
Ultra 17 Plus 17" 1600 x 1280 .28 NI	699

PROTON

GM1449A 14" 1280 x 1024 .28 NI, built-in speakers & earphone	265
GM1560 15" Flat 1280 x 1024 .28 NI	335
GM1563M 15" Flat 1280 x 1024 .28 NI, Digital, built-in speakers	355
GM1764M 17" Flat 1280 x 1024 .28 NI, Digital, built-in speakers	659

SAMSUNG (SyncMaster)

15GLi 15" 1280 x 1024 .28 NI, at 60Hz	429
17GLi 17" 1280 x 1024 .28 NI, at 60Hz	739
17GLSi 17" 1600 x 1200 .26 NI, at 68Hz	**(849)*
20GLS 20" 1600 x 1200 .28 NI, at 66Hz	1319

SHAMROCK

SRC-1407 14" 1024 x 768 .28 NI, Digital	249
SRC-1502 15" 1280 x 1024 .28 NI, Digital	329
SRC-1703L 17" 1280 x 1024 .28 NI, Digital	589
SRC-1702L 17" 1600 x 1280 .26 NI, BNC	689
SRC-2002L 1600 x 1280 NI	**(1099)*
SRC-2102L 1600 x 1280 Ni	**(1499)*

SONY

1425 14" 1024 x 768 .25	**(299)*
15SF 15" 1280 x 1024 .25 NI	495
17SF 17" 1280 x 1024 .25	889
20SE 20" 1280 x 1024 .30 NI	1885

TVS

9" 1024 x 768 VGA Mono	119

VIEWSONIC

14ES 14" 1024 x 768 .28 NI	289
15ES 15" 1024 x 768 .28 NI, MacII	389
15G 15" Flat 1280 x 1024 .28 NI	429
15GA 15" 1280 x 1024 .28 NI, built-in speakers	509
17EA 17" 1280 x 1024 .28 NI, plug & play	665
17GA 17" 1280 x 1024 .27 NI, plug & play	779
17GS 17" 1280 x 1024 .27 NI	735
17PS 17" 1600 x 1280 .25 NI, plug & play, TCO	899
20G 20" 1600 x 1280 .28 NI	1245
20PS 20" 1600 x 1280 .28 NI, MacII	1429
21PS 21" 1600 x 1280 .26 NI, MacII	1649

WYSE

WY-1450A 14" 1024 x 768 .28 NI	269
WY-15E 15" 1280 x 1024 .28 NI	409
WY-60 Terminal 14" : Amber/ Green/ White	335 each
WY-65 Terminal 14" : Amber/ Green/ White	359 each
Wy-150 Terminal 14" : Amber/ Green/ White.	299 each

MOUSE & JOYSTICK

AGILER

AGM-800E Serial 400 dpi	12.50
ATB-610 Serial Trackball	21.50
Master Plus 400	16.50

ANCER (black)

3-button	19

KENSINGTON

Expert Bus 4.0	115
Expert Serial & Trackball 4.0	95
Thinking Mouse (serial & PS/2)	79

LOGITECH

Cordless II	85
First Serial / First Trackball	31/49
Mouseman Bus / PG15 Bus oem	64/45
Mouseman Serial	45
Serial Combo PC & PS/2 oem / reg	32/45
Trackman II / Trackman Live Cordless	65/125
Trackman Marble (for Win '95)	75

MICROSOFT

Bus 2.0 400dpi w. Bus Card oem / reg	65/79
Home Serial 1.0	39.95
PS/2 2.0 (round connector) oem / reg	35/59
Serial 2.0 400dpi oem / reg	29/55

MOUSE SYSTEMS

Altes Mouse	9.95
Mouse! Serial w. Pad.	19
Omni Mouse (new version)	26
PC Mouse III (3-button optical)	49.50
PC Trackball II	39.95
ProAgio (5-button serial)	45
Serial Bus Card (9IRQs)	29

JOYSTICK :

LOGITECH

Wingman Extreme	47
Wingman Standard	29.95

MICROSOFT

Side Winder 1.0	29
Side Winder 3D Pro	59

MOUSE SYSTEMS

Cobra	9.95

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	135
F-16 TQS	129
Flight Control System MK II	69
- w. US Navy Fighter	89
Flight Control System Pro	119
Formula T1	125
Rudder Control	118
Weapon Control MKII	109
UPROM	29.95
XL Action	35

OTHERS

Basketball Mouse + Pad	28.95
CyberPad + Doom II	34
Football Mouse + Pad	28.95
Game Gun + Crime Patrol	49
Gravis Analog Pro	29
PC Gamepad	19.95
Soccer Mouse + Pad	28.95
Touche' Touch Pad : Serial / PS/2	**(55/55)*
Flinstone Mouse Pad	7.99
Lion King Mouse Pad	5.49
Star Trek Mouse Pad / Star Wars Pad	7.99/7.99
Winnie the Pooh Mouse Pad	5.49

NOTEBOOK

ACER

AcerNote Pro	
Model 954 : P-75, 8MB RAM, 256k, 810MB HDD 10.4" Dual Scan Color w. Win '95	2675
Model 955 : P-75, 8MB RAM, 256k, 540MB HDD 10.4" Active Color	3085
Model 957 : P-75, 8MB RAM, 256k, 810MB HDD 10.4" Active Color	3175
AcerNote Light	
Model 352 : DX4-25, 8MB RAM, 256k, 420MB HDD 10.4" Dual Scan Color, 1.44MB FD, Win '95	2069
Model 355 : Cyrix 5x86/100, 8MB , 500MB HDD 10.4" Dual Scan Color, 1 44MB FD, Win '95	2279

AST, NEC, TOSHIBA

	call for current prices

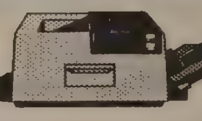
SAMSUNG

SP758C Pentium 75MHz, 8MB RAM, 10.4", DSTN, 520MB HDD, Type II & III PCMCIA	2499
SP788T Pentium 75MHz, 8MB RAM, TFT, 10.4" 810MB HDD, Type II & III PCMCIA	2945
SP918T Pentium 90MHz, 8MB RAM, 10.4", TFT, 1.3GB HDD, Type II & III PCMCIA	3195

OTHERS

Smart Book IV-P Pentium 586-90Mhzm 16k, 8MB RAM, 340MB HDD, 1.44MB FD :	
- w. Active Color 75Mhz	2229
- w. Active Color 90Mhz	2299
- w. Dual Scan Color 75Mhz	1959
- w. Dual Scan Color 90Mhz	2019
- w. VLB Docking Station	425
Smart Book V-Pro w. CD Rom :	
- w. Active Color 100Mhz	2819
- w. Active Color 133Mhz	3099
- w. Dual Scan Color 100Mhz	2639
- w. Dual Scan Color 133Mhz	2869
9200 9.5/10.4" Viewable Screen size, 4MB (expandable to 36), VLB w. 1MB video ram, removable HD, built-in speaker & microphone :	
- 486-DX2-66, 340MB (DSTN)	1549
- 486-DX2-66, 340MB (TFT)	1899
- 486-DX4-100, 340MB (DSTN)	1589
- 486 DX4-100, 340MB (TFT)	1919

PRINTER / PLOTTER



BROTHER

HL-630 Laser 6ppm	399
HL-645 6ppm, 1MB RAM	459
HL655M for PC & MAC, 2MB RAM	599

CANON

BJ-10SX / w. Sheet Feeder	**(195/205)*
BJ-200EX Bubble Jet, 360x720dpi	**(215)*
BJC-600E Ink Jet, Color, Par. 720dpi	479
BJC-610 Ink Jet	549
BJC-4000 Ink Jet, Color, 360x720dpi	335
BJC-4100 Ink Jet, Color	375

CITIZEN

GSX-230 Fonts & Quiet	189
GSX-240 Scalable Fonts & Quiet	245
GSX-345 24 pin, 132 column	365
Projet II Ink Jet	229
Accessories :	
- Color Option for GSX-130 / GXS-145	45/65

DEC (Digital Equipment)

DecLaser 5100 w. 6MB	1125
DecWriter 500i / color upgrade	285/46

EPSON

LQ-570 Plus 24 pin	259
LQ-870	455
LQ-1070 24 pin, Wide	399
Stylus II Color Inkjet 720/360dpi PC & Mac	429
Stylus IIS Color 720/360dpi PC	329
Stylus IIS Color Inkjet 720dpi PC	**(289)*

HP (w. toner)

Color Laser Jet	5535
Desk Jet 600 / 660C	299/389
Desk Jet 850C	529
Desk Jet 1200C PC	835
Desk Jet 1600C PC, Mac	1329
Desk Jet 1600C Postscript PC, Mac	1919
Ink Jet Plotter Color C3190A	2395
Laser Jet 4+ / 4M+	1399/1899
Laser Jet 4V / 4MV (B size)	1895/2695
Laser Jet 5L	519
Laser Jet 5P / 5MP	*(849)/1049
Laser Jet 5Si / 5SiMX	2875/3995
Office Jet LX (printer -fax -scanner -copier) 4-in-1	699
Accessories :	
- Color Kit C3067A for 540 / C4533A for 600	45/47
- Duplex (C2061A) for 4Si or 4SiMX	495
- Envelope Power Feeder 75 Sheet (HP4)	279
- Legal, Letter or A4 250 Sheet Tray (HP4)	99
- Legal, Letter or A4 500 Sheet Tray (HP4)	109
- Optional 500 Sheet legal Letter A4 (HP4)	279
- Postscript (C2013A) for 4Si	575
Ink Cartridges :	
- Black (HP51626A) for 500, 540, 560	24.45
- Color (HP51625A) for 500C, 550C, 560C	28 95
- Black (HP51629A) for 600, 660	24.95
- Color (HP51649A) for 660C	29.25
- Black (HP51640A) for 1200C	24.95
- Cyan (HP51640C) for 1200C	29 95
- Magenta (HP51460M) for 1200C	29.95
- Yellow (HP51640Y) for 1200C	29.95
Toner Cartridges :	
- Toner (HP92295A) for II, IID, III, IIID	69
- Toner (HP92275A) for IIP, IIP+, IIIP	69
- Toner (HP92298A) for 4, 4M, 4+, 4M+	109
- Toner (HP92274A) for 4L, 4ML, 4P	65
- Toner (HP92291A) for IIISi, 4Si, 4SiMX	129

LASER MASTER

Winjet 1200 (postscript for HP4)	**(549)*
Winjet 1200+ (postscript for HP4+)	**(599)*

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	**(599)*

OKIDATA

ML184T 9 pin, Par	239
ML320 9 pin, Epson compatible	335
ML380 24 pin, Epson compatible	245
ML590 24-wire	439
OL400E Laser	**(375)*
OL410E Laser 4ppm, 600ppi	**(499)*
OL410E/PS Laser Postscript	**(775)*

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter)	795
ProTracer II-GL2 w. HP-GL2 & 2MB	1095
Accessories :	
- HP-GAL Emulation Card	375
- Ink Cartridges	19.50
- Postscript Emulation Card	375
- Sheet Feeder I / II	135/115

PANASONIC

1150 9 pin, 55dBA	139
2023 24 pin, Quiet	185

*(price)	SPECIALS / on SALE
(oem)	$, bunddled with hardware only

2130 Quiet Dot Matrix	*(after rebate, 169)199
2135 Quiet Dot, Color	*(after rebate, 205)255
3123 24 pin, Quiet, Scalable Fonts	259
3124 24 pin, Scalable Fonts, LCD	329
3626 24 pin, Quiet Wide-carriage	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	*(259)
4430 Laser 5ppm, 1MB	665
Accessories (for 4430 & 4410) :	
- Corona KX-PCR3	49
- Developer KX-PDP4 / KX-PDP5	110/125
- Drum KX-PDM4 / KX-PDM5	99/109
- Extra Cassette KX-PKC2	45
- Fonts Card KX-P47X	95
- Fuser Unit KX-PFS5	105
- Optional Second Cassette KX-P495	135
- Toner KX-P453	42
Accessories (for 4400 & 5400) :	
- Apple Talk Interface KX-P412	179
- Drum Unit KX-PDM6	95
- Postscript Upgrade Board KX-PSU3	399
- Postscript Fax Option KX-PFX1	259
- RS232 Serial Interface KX-P411	95
- Toner Kit KX-P445	17.50
4440 Laser 10ppm	995
4455 Postscript 11ppm	1695
Accessories (for 4455, 4455 & 4450i) :	
- Developer KX-PDP1	95
- Drum KX-PDM1	145
- Envelope Tray KX-P430	59
- Legal Tray KX-P420	45
- Ozone Filter KX-PFT1	32
- Toner KX-P450	42
5400 Led Postscript 4ppm	345
KXP-6100 600dpi 6ppm	399
SP-100 Multi-function printer	769
Other Accessories :	
- 32k Buffer Dot Matrix KX-P43	65
- Auto Sheet Feeder for 1124 KX-P36	120
- Color Upgrade Kit KX-PCK11	55
- Serial Interface Card PS-13	75
- Single Bin Cut Sheet Feeder KX-PT10	95

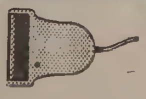
SEIKO

Smart Label Printer EZ30 / Pro	145/245
- Standard Label (2 rolls)	7.95

SUMMAJET (Plotter)

1324M Mono A - D Size	1990
1324C Color A - D Size	2250
1336M Mono A - F Size	2465
1336C Color A - F Size	2695
D Size Stand / E Size Stand	325/365

SCANNER



DELRINA

WinFax Pro Scanner	*(299)

HP (flatbed)

ScanJet 4C Color & Gray Scale w. Kit	935
- Auto Document Feeder	475
- Transparency	635

LOGITECH (hand)

Scanman Power Page	399

MICROTEK (flatbed color)

Scan Maker II w. Photoshop L.E.	395
Scan Maker IIHR 600 dpi w. Photoshop & OCR	795
Scan Maker IIHR 600 dpi w. Picture Publisher	599
Scan Maker IISPX 300 x 600 dpi	675
Scan Maker III w. TMA & OCR	2195

VISIONEER

PaperPort + OCR for Win	355

TAPE BACKUP

ARCADA (software)

Back Up for Windows '95	65
Back Up Exec for Dos/ Win/ Netware WS	89
Back Up Exec for Netware 7.0 Enterprise	845
Back Up Exec for Netware Single Server	435
Back Up Exec for Windows NT Server	439
Back Up Exec for Windows NT Workstation	189

COMBYTE

DP1800EA 800MB Int	135

COLORADO

DJ-35C Jumbo 350 340MB Int	125
DJ-50C Jumbo 1400 1.3GB Int w. Controller	229
PT-10 PowerTape 1GB SCSI Int	599
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext SCSI	1095
Tracker 350MB (printer port)	279
- upgrade fr 250MB to 350MB	39.95
Tracker 680MB (printer port)	295

CONNER

CNR-4320RT 2GB Int w. 5.25" rail	785
CNR-4350XT 2GB Ext	985
Tape Stor w. cartridge 420MB Int / Ext	135/279
Tape Stor w. cartridge 850MB Int	199
Tape Stor 850MB w. cart. Ext (printer port)	349

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int / Ext	475/649
EXB-4200 4mm Dat 2GB Int / Ext	799/975
EXB-8205XL 8mm Dat 3.5 - 7GB Int / Ext	1275/1499
EXB-8505XL 8mm Dat 7 - 14GB Int / Ext	1985/2275

HP

C1534 4mm Dat 2-4GB SCSI Int	699
C1536 4mm Dat 4-8GB SCSI Int	799
C1533 4mm Dat 8-16GB SCSI Int	945
T1000 850MB Travan w. cart., Int	185
T1000 850MB Ext, printer port	219
HP Mounting Frame to 5.25" for C1533	27
HP Mounting Frame to 5.25" for C1534	25
HP Mounting Frame to 5.25" for C1536	25
Surestore 2000i (C1525F) 2GB w. Kit Int	895
Surestore 2000e (C1520F) 2GB w. Kit Ext	1075
Surestore 5000i (C1526F) 4GB w. Kit Int	1045
Surestore 5000e (C1521F) 4GB w. Kit Ext	1195
Surestore 6000i (C1528F) 8GB w. Kit Int	1225
Surestore 6000e (C1529F) 8GB w. Kit Ext	1395

IOMEGA

Ditto 800MB Travan Int	149
Ditto 800MB Travan Parallel	155

NOVASTAR (software)

Backup / Restore for MAC	58
Novaback 4.58 for Dos	59.50
Novaback for Windows	59
Novaback for Win '95	55
Novabakc for OS/2	58

SUMMIT

SE250 Int	135

VGA CARD

ATI

Graphics Xpression 2MB PCI / VLB	199/199
Graphics Xpression 2MB ISA	199
Graphics Pro Turbo 2MB PCI / VLB	315/315
Graphics Pro Turbo 2MB ISA	315
Graphics Pro Turbo 4MB PCI / VLB	449/449
Win Turbo 64 2MB PCI / VLB	275/275

DIAMOND

Stealth 32 2MB PCI	159
Stealth 64 1MB DRAM PCI	125
Stealth 64 2MB DRAM PCI / VLB	175/179
Stealth Motion Video Player 2200 w. 2MB	439
Stealth Video 64 2MB VRAM PCI / VLB	269/275
- 2MB upgrade	165
Stealth Video 64 4MB VRAM PCI	459

MATROX

IMP Plus 220 2MB PCI	395
Millenium PCI 2MB / 4MB	315/459

MEDIA VISION

ProGraphics 1024 VL 256 Color 1MB	*(149)

MIRO

Video 20SD 2MB DRAM PCI	149
Video 20SV 2MB VRAM PCI	235

NUMBER NINE

FX Motion 330 DRAM 2MB PCI	175
FX Motion 771 VRAM PCI 2MB oem / reg	269/289
FX Motion 771 VRAM PCI 4MB oem / reg	409/429
GXe Level 12 VRAM 3MB ISA	299
Imagine 128 4MB PCI	599
Imagine 128 1600 8MB PCI	1175

SPIDER

Lynx 64 64 bit Accelerator 1MB PCI	79
Tarantula 64 2MB VRAM VLB / PCI	219/219
Tarantula 64 4MB VRAM VLB / PCI	335/335
Tarantula 64 MK II 4MB VRAM VLB / PCI	385/385

OTHERS

Boca Voyager Movie Player Accelerator VGA	285
Howard Video Camera	295
Movie Plus 1100 MPEF Decoder	199
Oak 087 Super VGA 1MB	65
Paradise Window Accelerator 24 bit VGA	109
S3 Vision 864 64 bit 2MB PCI	159
Snappy (video Snapshot)	198
Tvator Pro PC/MAC VGA to NTSC Scan Converter	139
Tvator Remote Pro VGA to NTSC Scan Converter	289
V-Mate Pro (video encorder : PC to TV)	189
Video Logic Captivator	135
Video Plus (color video grabber)	185
Vitex MCP Card (monographic)	19

SOFTWARE

1. PC SOFTWARE

ADOBE

Illustrator 4.0 for Win	425
Illustrator 4.1 for Win '95	325
Pagemaker 6.0 for Win	575
Photoshop 3.0 for Win oem	*(265)
Photoshop 3.0 for Win & NT	565
Premier 4.0 for Win - FD/CD	445

AUTODESK

Animator Studio 1.1	249
AutoCAD Lite 2.0 - FD+CD	*(399)
Autosketch 2.0 for Win / for Win '95	135/89
Generic CADD 6.1	69

BORLAND

C++ 4.5 - CD for Dos, Win, Win32	325
- upgrade - CD	189
Delphi competitive upgrade	*(175)
Paradox 4.5 for Dos	*(295)
Paradox 5.0 for Win oem / reg	49/*(295)
- competitive upgrade	119
Paradox for Win '95	289
Power Pak for Dos	99
Sidekick 2 for Win	45
Turbo C++ for Dos / 4.5 for Win - CD	92/79
Turbo C++ Visual Edt. for Win	79
Visual dBase 5.5 for Win / upgrade	269/118

COREL

CD Creator for Win	165
Corel Draw 4.0 - CD oem	55
Corel Draw 5.0 - FD+CD / CD	*(459/395)
- upgrade fr 3.0 to 5.0 - FD+CD	*(325)
- upgrade fr 3.0 to 5.0 - CD only	*(285)
- upgrade fr 4.0 to 5.0 - FD+CD	*(189)
- upgrade fr 4.0 to 5.0 - CD only	*(165)
Corel Draw 6.0 - CD for Win '95	*(365)
- upgrade fr 3.0 to 6.0 / fr 5.0 to 6.0	299/195
Corel Flow	*(59)
Photo Paint 5 Plus - CD	67
Ventura 5.0 - FD+CD	*(325)

IBM

Anti Virus Desktop Edition	*(45)
OS/2 3.0 Warp - CD / FD	*(55)/74
OS/2 Connet / w. Windows	135/175
OS/2 Warp + Dos & Win - CD / FD	*(89)/118
Voice Type Dictation for Win (w. ISA board)	699

INTUIT

Quicken Deluxe 5.0 - CD / FD	59.95/59.95
Quicken Family Lawyer - CD	*(39)
Quicken Financial Planner '95	38
Quicken 4.0 - CD oem / reg	15/29
Quicken 5.0 for Win	39.95
Quickbook 3.1 for Win (w. Quickpay)	95
QuickBook & QuickPay for Dos	99
QuickBook Prof. for Win	189

LOTUS

1-2-3 5.0 for Win / upgrade	299/99
1-2-3 4.0 for Dos / upgrade	365/99
Ami Pro 3.1 for Win	*(99)
Approach 3.0 for Win / w. 1-2-3 upgrade	99/145
cc:Mail Desktop 2.1 for Win	69
cc:Mail Desktop 10-user License	359
cc:Mail Group Pack for Win w. Organizer	595
cc:Mail Lan System 10 License	*(545)
- Lan System Trade-up 10 License (router)	375
cc:Mail Mobile E-Mail 2.2 for Win	135
- upgrade	75
cc:Mail Router 5.1	*(79)
Freelance Graphic 2.01 for Win	335
- upgrade for Win / for Dos	99/99
Notes Starter Pack 3.0	850
Organizer 2.0 for Win	95
Smart Suite 3.0 - CD oem	*(125)
Smart Suite 4.0	459
- upgrade	*(249)

MICROGRAFX

ABC Flowcharter 4.0	315
Designer Tech. 4.1	455
Picture Publisher 5.0 for Win - CD	*(129)
Windows Draw 3.0	49

MICROSOFT

Access 2.0 for Win	299
- competitive upgrade / upgrade to Win'95	119/94
BOB (8 essential programs)	84.95
Creative Writer (age 8-14) - CD	*(32.95)
Dos 6.22 / upgrade	42/49
Excel for Win '95 upgrade	*(89.95)
Excel 5.0 for Win oem / reg	134/*(285)
- competitive upgrade	119
Fine Artists (age 8-14) - CD	*(32.95)
Flight Simulator 5.1 - CD	49.95
- Japan / Hawaii / New York / Paris / SF Scenery	19.95 each
Fortran 5.1 Compiler	155
Fortran Powerstation / upgrade	339/195
Fortran Powerstation 32 / upgrade to NT	495/275
Fox Pro 2.6 Single Dos or Win	*(95)
Macro Assembler 6.11 (MASM)	155
Mail Server 3.5 for PC	445
Multimedia Viewer - CD	315
Office 4.2 for Win - FD / CD	*(425)/459
- competitive upgrade - FD	275
Office Professional 4.3 - FD	*(499)
- competitive upgrade - FD	*(345)
Office Standard for Windows '95	455
- upgrade - FD / CD	225/225
Office Professional + Bookshelf for Win '95	549
- upgrade - FD / CD	315/*(299)
PC Mail 5 / 20-user	269/865
Power Point 4.0 / comp. upgrade	*(299)/125
Profit for Win	129
Project 4.0 for Win / upgrade	415/139
Project for Win '95	419
Publisher 2.0 for Win	89
Sound System 2.0 for Win - software only	49
Source Save	475
Space Simulator	*(39.95)
SNA NT Server / SNA NT Workstation	395/199
SQL NT Server 6.0 / upgrade	899/479
SQL NT Workstation / upgrade	479/239
System MGMT Server	629
Test 3.0 for Win / upgrade	569/185
Visual Basic 4.0 for Win'95 - Standard	*(85)
Visual Basic Prof. 4.0 for Win - CD	445
- upgrade / competitive upgrade	89/229
Visual C++ Standard 1.52 - CD	89
Visual C++ 2.0 for Windows NT (subsrcription)	469
Visual C++ 2.0 for Win & NT (on-line doc.)	369
Visual C++ 4.0 for Win '95 upgrade	229
Visual Fox Pro Standard 3.0 / upgrade	189/95
Visual Fox Pro Professional / upgrade	449/275
Windows 3.11 / upgrade	51/49.95
Windows '95	*(179)
- oem version - FD / CD	109/104
- upgrade - FD / CD	*(89/89)
Windows '95 Plus - FD / CD	44/44
Windows '95 Resource Kit	29
Windows NT 3.51 Workstation - CD / FD	289/287
- upgrade fr v3.1 to v3.51	95
Windows NT Server 3.51	645
- competitive upgrade / upgrade 20 license	649/255
Windows NT Server + 10 Client License	925
- License: single client / 20-client	35/499
Windows NT Step-up fr 3.5 to 3.51 :	
- for server CD / FD	68/95
- for workstation CD / FD	19/45
Windows for Workgroups (reg. version)	135
- oem version in 3.5" FD	57
- Workgroups Add On 3.11 for Win	45
- Workgroups Add On 3.11 MS-DOS	52
Word for Win '95	295
- upgrade	*(89.95)
Word 6.0 for Win oem / reg	135/289
- competitive upgrade	119
Works 3.0 for Win oem	59
Works for Win'95	45
Works + Bookshelf Win'95 - CD	69

NOVELL

Perfect Office 3.0 for Win	399
Perfect Office Prof. 3.0 FD / CD oem	545/*(199)
- upgrade	289
Quattro Pro 6.0 for Win - CD	255
- upgrade / competitive trade-up	49/89.95
Wordperfect 5.2 for OS/2	*(99)
Wordperfect 6.0 for Dos (free upgrade)	*(259)
Wordperfect 6.1 for Win - FD / CD	*(219/229)
- upgrade / educational offer version	95/79.99

QUARTERDECK

Cleansweep	*(28)
DesqView 386 + Qemm 7.5	85
DesqView/X 2.1	169
DesqView/X Network Manager (TCP/IP)	*(99)
Game Runner 2.0	39
Internet Suite 1.0	37
Mosaic 1.0	19.95
Qemm 7.5 / upgrade	59/36
Web Author 1.0	45
Web Server 1.0	104

SYMANTEC

ACT! 2.0 for Win	*(169)
C++ 7.0 for Win	189
Norton Anti-Virus '95	*(69.95)
- Trade up	29.95
Norton Anti-Virus 3.0 for Win & Dos	89
Norton Desktop 3.0 for Win oem / reg	95/112
Norton Navigator '95	89.95
Norton Speed Drive (speeds Win, Dos, CD)	69
Norton Utilities '95 / upgrade	118/58
Norton Utilities 8.0 oem / reg	94/109
On Target for Win (project planning)	89
PC Anywhere 5.0 Remote & Host for Dos	*(115)
- v2.0 for Win	125
Q & A for Win	159

MACINTOSH TITLES

Adobe Illustrator	375
Adobe Pagemaker 6.0	565
Adobe Photoshop for Power Mac	565
Adobe Premier	475
Claris File Maker Pro	95
FA-18 Hornet 2.0 - CD	48
Fractal Design Painter	315
FrameMaker 5.0 for Power Mac	569
Lotus CC Mail 2.2	69
Macromedia Fontographer	319
Macromedia Freehand for Mac & Power Mac	379
Macromedia Macro Model	179
Microsoft Excel 5.0	299
Microsoft Office 4.21	465
Microsoft Word 6.0	299
Netscape Navigator	38
Outlook PC File Exchange	75
Quark X'Press FD / CD	619/685
Symantec Anti-Virus 4.0 (SAM)	69
Symantec Think C	189
Symantec Utilities 3.1	95
Turbo CAD 3D	159

*(price) .... SPECIALS / on SALE

(oem) .... $, bunddled with hardware only

HAPPY NEW YEAR

New Year's Specials..... $ SALE $ $ SALE $ $ SALE $

OTHERS

3D Eye : TriSpectives Professional	*(299)459
After Dark III - FD	29.95
- Complete After Dark - FD	39.95
After Dark for Win'95 - CD	*(18)*
By Design for Win	59
Caere: Omni Page Direct OCR 2.0	65
Caere: Omni Page Professional 6.0 for Win	455
- upgrade	139
Caere: Wordscan 3.0 for Win	169
Caere: Wordscan Plus 4.0 / upgrade	389/139
CA Clipper 5.2 / upgrade	479/115
CA Simply Accounting Dos / Win	69/69
Cakewalk Home Studio (music)	99
Cakewalk Professional 3.0 for Win	235
Canvas for Win / Trade-up	265/99
Carbon Copy 6.1 Guest & Host for Dos	105
Carbon Copy 2.5 for Win	*(115)*
Check-It Pro vol.1 & vol.2	85
Check-It Pro Deluxe 2.0 for Dos	135
Claris File Maker Pro 2.1 for Win	115
- competitive upgrade	99
Claris Works for Win	65
DacEasy Accounting 5.0 for Dos	95
- v1.0 for Win	95
Dashboard '95	47
Delrina: Echo Lake (family album)	45
Desk to Desk (office network for 2 - 255 user)	72
Design CAD 2D 7.0 for Win	179
Dilbert Screen Saver	26
Direct Access 5.1 for Dos	65
Disney Screen Saver	27.95
Disney: Aladdin Print Kit	*(19)*
Disney: Beauty and the Beast Print Kit	*(19)*
Disney: Dick Tracy Print Kit	*(19)*
Disney: Mickey Print Kit	*(19)*
Eclipse Fax 1.2 for Win / w. OCR	69/79
FastBack Plus 6.0 for Dos	119
Fax Works Pro 3.0	*(29.95)*
Floor Plan Plus 3D competitive upgrade	47
Form Buster 2.1 - FD / Form Buster Plus - CD	35/49.95
Fractal Dabbler	55
Fractal Design Painter 3.1 for Win	315
Fractal Design Painter X2 for Win	88
FrameMaker 5.0 for Win	559
- upgrade - FD / CD	195/199
FTP: PC/TCP for Win / w. On-Net	285/345
Globalink Assistant (language translation)	
- French / German / Italian / Spanish	46 each
Harvard Graphics 3.0 for Win w. Impact	275
- upgrade	95
Helix Multimedia Cloaking	32
Helix Netroom 3.0 1 / 4 / 10-user	59/119/255
Hijaak for Windows '95	*(47)*
Hijaak Graphics 3.0 for Win	89
Home Alone 2	*(19)*
Hyper Access for OS/2 / for Win'95	99/49
Jetform Filler 4.1 + Companion + Forms	*(89)*
Kai's Power Tools 2.0 for Win	115
Kid CAD - FD / CD	*(24)/36
Laplink V for Dos	105
Laplink 6.0 for Win / upgrade	129/85
Lion King Screen Saver	16
Mac-in-Dos for Win	89
Macromedia Director 4.0 for Win	795
Macromedia Freehand 5.0 for Win	375
Managing Your Money for Win	33.95
Math CAD 6.0 for Win / 6.0 Plus	105/275
McAfee: Virus Scan 2.2	*(39.95)*
- Virus Scan for Win	*(39.99)*
Medical House Call (Applied Medical)	55
Miracle Piano Teaching Software for Win	58
Mosaic in a Box	*(5)*
Netscape Navigator for Win (WWW)	35
- for Win '95 (32 bit)	36
One Write Plus Accounting & Payroll	49
Passport Encore 3.0	365
Peach Tree Accounting 3.0 for Win - FD/ CD	115/119
Peach Tree Accounting 8.0 Complete	185
- Multi-user	279
Pocahontas Screen Saver (Disney)	19.95
Power Search (file manager)	*(25)39
Power Translator Professional for Win	379
Procomm Plus 2.1 for Dos / Win	89/126
QA Plus v4.8 for Dos / v6.0 for Win	59/59
Quark X Press 3.3 for Win	599
Qualitas 386 Max 7.0	*(59)*
Ram Doubler for Win	55
Remove-It for Win & Dos	*(19.99)*
Sidekick '95 for Win	48
Sim Farm	19.95
SoftRam for Win'95	32
SpinRite 3.1	79
Stacker 4.0 / upgrade	95/55
Tie Fighter (game)	*(35)*
Turbo CAD 2.0 for Win	75
Uninstaller 3.0 for Win (microhelp)	39
- for Network 2.0	*(75)*
View Office Power Suite (6 scan programs)	89
Visio 4.0 for Win'95 & Win	135
Visio Technical 3.0 / 4.0	215/265
Visual : Virtual Reality	175
Visual : Simply 3D	39
Vision Time (video conferencing)	**44.95**
**** demo available at our Santa Clara store ****	
Watcom C++ 16/32 bit v10 / v10.5	189/249
Wave 2.0 for Win (by Turtle Beach)	69
Win Check-It 2.0	46
Win Comm Pro	79
Windows '95 Advisor	35
WinFax Pro + Win Comm Pro	*(109)*
WinFax Pro 4.0 - FD / CD	79/89
- for Server / 10-user Pack	119/599
WinFax Pro 7.0 for Win '95	79
WinGuard Plus (data security) Win & Dos	39
WinSense 2.0 (windows optimizer)	39
Winsleuth Gold Plus	59
WinZones (comprehensive time)	19.95
Wordstar 2.0 for Win	39
XTree Gold 3.0 for Dos	*(95)*
XTree Gold 4.0 for Win	85

CD SOFTWARE

BRODERBUND (for Kids)

3D Home Architech	58
Alian Tale	36
Arthur's Birthday oem / reg	*22/*(27.95)*
Arthur's Teacher Trouble MPC & MAC	15
Berebstain Bears: Gets in a Fight	35
Dr. Seuss	35
Gone Fishing (Amtex)	42
Harry's Haunted House MPC & MAC	35
In The 1st Degree	46
Just Grandma and Me MPC & MAC	15
Kid Pix Studio	*(32.95)*
Math Workshop	*(34)*
MYST MPC	45
MYST MAC / Guide Book	48/16
PC Globe Map	15
Playroom MPC / MAC	35/35
Prince of Persia 1+2	22
Printshop Deluxe 2 oem / reg	29/69
Ruff's Bone MPC / MAC	*(29.95)*
The Amazing Writing Machine	*(32.95)*
The Little Monsters At School MPC / MAC	*(27.95)*
The New Kid On The Block MPC & MAC	*(29.95)*
The Tortoise and the Hare MPC / MAC	*(29.95)*
Where in the World is Carmen Sandiego	16

ESX

All Titles	***8.99 each***

Language Series

* Chinese

300 Poems from Tan Dynasty	18.99
365 Days Essential Chinese	14
Astrology Encyclopedia	28.99
Audio Visual Chinese English Dictionary	15
Basic Conversation in 6 Languages	18.99
China Bookshelf	15
Chinese Children's Song	15.99
Chinese Encyclopedia	22.99
Chinese Poems Overview	19.99
Chinese Proverbs in Stories	18.99
Culinary Excursion Through China	14
English Conversation for Chinese	19.99
Exploring China	15
Ivy League Analytical English	22.99
Journey to the Source	*(7.99)*
Learning 5 Languages - Story Book	22.99
Learn Chinese Phonics	23.99
Learning Chinese Words	21.99
Learning English thru' Games	19.99
Simple Chinese for Business & Travel	29.99
Sun Media Pack of 4CD	35
Super Lexicomp Dictionary	49.99
War Strategy of Sun Chi	18.99

* Others

All in One Language Fun	28
En Route Languages (French)	46
English to Spanish basic version (5CD)	27
Exotic Japan (language & culture)	36
EZ Language (vocabulary)	16
Global French / Global German	29.95/29.95
Japanese for Business WIN, MAC	125
Languages Around the World	15
Languages of the World WIN	15
Learn to Speak English PC, MAC oem / reg	32/55
Learn to Speak French PC, MAC	89
Learn to Speak German PC, MAC	89
Learn to Speak Japanese MAC	55
Learn to Speak Spanish PC, MAC	89
Playing with Language MPC	17 each
Power Japanese 2.0 WIN	139
Power Translator Deluxe (by Globalink)	115 each
Pronounciation Tutor v3.0	36 each
Quick & Easy Spanish	17
Think and Talk : Italian / German	99/99
Triple Play : English / Spanish / French	19.50 each

LASER SOFT

Titles from	***9.95 each***

LIMELIGHT MEDIA

Titles from	***9.95 each***

MEDIA VISION

All Titles	***7.95 each***

MICROSOFT

500 Nations	29
Ancient Land oem / reg	25/45
Art Gallery Multimedia MPC	*(45)*
Back Office Kit oem	*(299)*
Bookshelf for Win '95	46
Cinemania '94 oem / '95 MPC	*(9.95/45)*
Cinemania for Win '95	29
Complete Baseball MPC	*(29.95)*
Complete Basketball	*(25)*
Dangerous Creatures oem / reg	19/45
Dinosaur MPC oem / reg	25/29
Dogs	29
Encarta '95 MPC	*(25)*
Encarta '96 for Win'95	47
Excel 5.0 oem for Win NT	69
Explorapedia: World of Nature / World of People	33/34
Frank Lloyd Wright	*(25)*
Fury (game)	38
Golf MPC oem	*(9.95)*
Golf 2 1996	37
Magic School Bus: Human Body	*(35)*
Magic School House: Solar Systems	*(35)*
Multimedia Beethoven 9th Symphony	53
Multimedia Mozart MPC	53
Multimedia Schubert MPC	53
Multimedia Stravinsky MPC	53
Musical Instruments MPC oem / reg	29/53
Office for Win'95 & Win NT	225
Office 4.3 Professional + Bookshelf '94	*(199)*
Ultimate Haunted House	*(35)*
Ultimate Robot	*(35)*
Wine Guide	37
Works 3.0 + Money	*(19)*
World of Flight	22

POWER SOURCE

Titles from	***7.50 each***

ROCELCO

Titles from	***7.99 each***

WALNUT CREEK

4.4 BSD Lite	17
2000 Truetype Fonts	24
Ada CD Rom (2CD)	17
Awesome Animation	16
Avalon 3D Object	22
Beer - Home Brewing	25
Best Application (business & home)	29
C User Group Library	22
CD Rom of CD Rom	*(9)*
CICA MS Windows May '95 / Aug '95	8/13
Clipart Cornucopeia	17
Clipart Image Library	23
Cliper	22
CP/M	23
Doom Shareware (vol.1)	8
Doom Tool Kit	15
East Asian Text Processing	23
Fractal Frenzy #1 / #2	17/17
Free BSD 2.05	17
G N U for Unix & Sun	23
Garbo DOS, MAC	13
GIF Galore	17
Giga Games vol.2 / vol.3	16/16
Hobbes OS/2 (Dec '95)	15
Inter Net Info '95	18
Kirk's Comm	22
La Collection (English & Spanish)	18
Libris Brittania	25
Linux Slackware 2.3 / 3.0	11/18
Music Workshop	22
Nebula for Next Step Intel	22
NEWT (NT s/w from Internet)	22
Nova for NEXT	25
Official POV-Ray	23
PERL	22
Power Dos	13
Project Gutterburg '95	18
QRZ: Ham Radio (call book) / Boxed version	13/16
Ready to Run Hobbes OS/2	18
Scientific & Technology Library	23
Sentimental Wings	26
Simtel MS Dos 2CD	13
Source Code for Unix	18
Space and Astronomy	17
Space Shuttle	24
Sprite for Sun	14
TCL/TK Source Code May '94 / Oct '95	16/22
Teacher 2000 (education programs)	18
Tex (utilities, 2CD)	23
Travel Adventure	18
Turbo User Group TUG)	24
Ultra Mac Games MAC	23
Ultra Mac Utilities	23
Unix - System V v4.2	29
Visions	23
VR-Zone	15
Welcome to Thailand	18
X11R6 for Unix	23

KIDS TITLES
Learning Fun & Educational

2 Interactive Books (age 3-8)	19
3D Body Adventure DOS, WIN	29
3D Dinosaur Adventure	29.95
African Wild Animals (age 6-12)	14
Alphabet Blocks (age 3-5)	*(29)*
Amanda Stories	*(15)*
Animal Alphabet MPC	15
Animal Antics	16
Art Center Classics (age 8+)	15
Beginning Reading (age 4-8)	*(19.95)*
Beyond the Wall Vietnam (age 13+)	38
Big Red Adventure	16
Big Green	*(13)*
Black Beauty (video, interactive)	26
Brer Rabbit & Tar Baby	18
Bug Adventure	*(19.95)*
Busy Town (age 3 - 7) DOS	*29*
Cartoon Idioms PC, MAC	*(8.95)
Cartoon History of Universe	33
Casper Brainy Book (age 4-8)	32
Chadwick and the Egg Thief	*(19.95)*
Children's Edutainment for Young Minds	14
Children's Gameroom	14
Chop Suey (age 6+) WIN	29.95
Civilization : Religions of the World	49
Classroom Power Pack	16
Community Exploration (age 5-10)	16
Crayola Amazing Adventure (age 3-6)	39.95
Crayola Art Studio (age 6-12)	39
Cuckoo Zoo (age 3-6)	15
Cute 'n' Cuddies	*(15)*
Dance with ABC	19.99
Dandy Dinosaurs	12
Dictionary for Kids (Merrian - Webster)	17
Dinosaurs Discovery	15
Dinosaur Museum (Smithsonian Institution)	38
Dinosaur Safari	12
Disney: Aladdin Activity Center	*(24.99)*
Disney: Follow the Reader & Sound Source	22
Disney: Hare Raising Havoc (Roger Rabbit)	18
Disney: Lion King Activity Center WIN / MAC	34/36
Disney: Lion King Story Book	*(29.99)*
Disney: Mickey's Word Adventures	17
Disney: Pocahontas Animated Storybook Win/Mac	34/36
Disney: Timon & Pumbaa's Jungle Games WIN	33
Disney : Toy Story Screen Saver	19
Disney :Winnie the Pooh Animated Story	33
Distant Sun 3.0 w. Book	24
EA Kid's Art Center	36
EA Kid's Jungle Book	34
EA Kids Pak	22
Early Education Power Pack (3 games)	16
Early Learning Collection (age 3-7)	*(13)*
Echo the Dolphin	39.95
Educator	12
Elroy goes Bugzerk (for kids)	36
Expert: Astrologer	14
Expert: Classwork & More	14
Expert: Typing	14
Exploration	42
Explorers of New World	24
Events that Change the World PC & MAC	32
Felix the Cat	33
Fisher Price : 123	32
Fisher Price : ABC	32
Fisher Price : Dream Doll House	32
Fisher Price : Ready for School	48
Fisher Price : Sing Along	32
Flintstone	29.95
Follow That Sleigh (age 7-12) MAC & WIN	34
Fun For Kids Power Pack (3 games)	16
Fun with 100 Words	19.95
Fun with Electronics (age 7-12)	36
Geography : Physical World	49
Gizmos & Gadgets (age 7-12)	37
Goblins v.1 / v.2 / v.3	13/15/19
Greatest Children Story (by Softkey)	15
Greatest Paper Airplane	11
Guide Book Mathematics	12
Heinimann's Children Encyclopedia	17
HELLO KITTY: Big Fun Art	19
HELLO KITTY: Big Fun Deluxe	34
HELLO KITTY: Big Fun Shapes & Numbers	19

*(price) .... SPECIALS / on SALE

(oem) .... $, bunddled with hardware only

HELLO KITTY: Big Fun Piano	19
HELLO KITTY: Big Fun Story Making	19
Hodj & Podj	*(39.95)
Home Sweet Home	*(16)
Homework Buddies (4 title, age 7-14)	*(25)
How Rhinoceres Got His Skin ?	18
How The World Work	19
How Things Grow	*(9.95)
How Things Work	29
How Things Work in Busy Town	29.95
Incredible Toon Machine oem	*(16)
Interactive Storytime vol.1	*(9.95)
IVI : AnnaTommy oem / reg	19/24
IVI : Safety Monkey	*(12)
IVI : Virtual Body oem / reg	17/19
IVI : Welcome to Bodyland	*(12)
IVI : What is a Bellybutton?	18
Jazz Jack Rabbit + One Must Fall 2097	*(9.95)
Jeopardy - Junior Ed.	7.99
Jumpstart : 1st Grade / Kindergarten	28/32
Jumpstart Pre-School	28
Jurassic Park Activity Center	18
K to 12 Grade	11
KEROPPI: Day Hopper	33
Kid CAD	34
Kid Mail Connection	29.95
Kid Works 2 WIN, MAC	*(24)36
Kids At Home Power Pak (3 titles, age 2-7)	17
Kids Rom : Math WIN, MAC	16
Kids Rom : Multimedia Dictionary (6 lang.)	16
Kids Rom : Play Room	16
Kids Rom : Spelling (8 languages)	16
Kids Rom : Science	16
Kids Rom : Word Animation WIN, MAC	16
Kids Studio oem / reg	14/29
King Arthur's Magic Castle	16
King's Quest 6	17
King's Quest 7 PC oem / reg	*17/*(44.95)*
King Quest 7 2.0 (for Win '95)	33.95
King's Quest Collection (vol. 1 - 6) oem / reg	29/36
Kingdom The Far Reaches	*(39.95)
Klick & Play (by Maxis)	39
Hypnotic Harp MPC	14
Lassie (movie, interactive)	26
Last Dinosaur Egg MPC	16
Learning Collection (age 7-14, 6 programs)	16
Learning Fun House	18
Learning Library for Kids (6 titles)	12
Learning Power Pack (3 games)	16
Legend of Oz	12
Letters & Numbers (kids)	18
Life's Great Mystery w. mouse pad	36
Lost & Found v.1 / v.2 / v.3	*(24) each
MacMillian Dictionary for Children (age 7-12)	22
Magic Bear's Masterpieces (math)	*(9.95)
Mammals (national geographic) DOS	17
Mario Early Years (age 2-6)	*(13)
Mario Time Machine Deluxe	12
Math Ace (age 8-14)	16
Math Blaster Episode #1 oem / reg	16/36
Math Blaster Episode #2	38
Math Master	11
Math Rabbit	39
Mavis Beacon Teaches Typing for Kids	17
Me & My World	13
Middle School Suite	13
Mighty Morphin Power Ranger oem / reg	15/26
Millie's Math House (age 2-5) PC, MAC	35
Morgan's Trivia Machine w. Ugly Ducking (age 7-14)	32
Multimedia : Cats / Dogs	25/25
Multimedia Learning Fun	15
Multimedia Nursery Rhymes	15
Muppet Reading Phonics	26
Muppet's Calendar	19.95
Mutanoid Math & Word Challenge	9.95
My Favorite Monster	32
My First Incredible Amazing Dictionary	28
My Paint (for kids)	19.95
Native American Warriors & Chiefs	12
New Kid Edutainment #1 (age 3-8) / #2 (age 8-16)	12 ea.
Nikko - Elephant Adventure (age 2-7)	13
Night Sky Interactive (Astronomy)	27
Ocean Below MPC	12
Once Upon the Forest	19.50
Opening Night (w. Oregan Trail) Win & Mac	48
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Oregon Trail I / II	18/*(35)
Page Master	*(29.95)
Peanuts	23
Pecos Bill	18
Pixie Dust (for kids)	18
Play and Learn for Kids	13
P.B. Bears Birthday Party	27
Power Ranger : Coloring Book PC & MAC	24
Power Ranger : Screen Scenes PC & MAC	24
Pre-school Edutainment	11
Pre-school Power Pak (3 titles)	17
Putt Putt: Goes to the Moon (w. Activity Pak)	34
Putt Putt: Joins The Parade	34
Putt Putt: Saves the Zoo	34
Putt Putt & Fatty Bear Activity Center	19.95
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President	*(12)
Radio Addition (math for age 3-8)	29

Read, Write & Type	45
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Reader Rabbit 3 Deluxe (age 6-9)	39.95
Reader Rabbit Interactive Journey	79.95
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Real World Math (age 7-11)	16
Rescue the Scientists	33
Rodney Fun Screen	17
Sam & Max Hit the Road oem / reg	14/19
Sammy's Science House (age 3-6) PC, MAC	35
School Days	18
Science & Nature : Conservation	*(29)46
Science & Nature : Elements	49
Science & Nature : Water	49
Scientific American Library : The Planets	45
Selfish Giant	14
Sesame Street Numbers	34
Sing-a-long Around the World (Dr. T)	*(13)
Sing An American Story	*(9.95)
Sitting On The Farm	16
Skunny & Rosie Arcade Action 6-Pak	19.95
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Snoopy's Geography (age 3-10)	26
Snoopy's Math (age 3-10)	19
Snoopy's Spelling (age 3-10)	19
Snoopy's World Geography	19
Sound It Out Land #1 / #2 / #3 (age 4 - 6)	29 ea.
Sparky's Tangle Tail (educational)	16
Spellbounce (age 7-12) WIN	35
Spelling Blizzard (age 9-12)	*(19.95)
Spelling Jungle oem / reg	18/36
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The Animals 1.0 MAC	13
The Animals 2.0 MPC	12
The Ultimate Human Body (Dorling)	*(36)
The Way Things Works (Dorling)	*(36)
Thinking Game Around The World (age 4-12)	11
Thinking Things & Kid Desk	35
Time Shop	18
Treasure Cove (by Learning Co., age 5-9)	35
Tuneland MPC oem / reg	24/45
Upside Down Town (age 4-7)	*(18)
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70 Arcade Games Win & Dos	14
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70 Stratedy Games Win & Dos	14
101 Only Best Game #3	11
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1942 Pacific Airwar Gold oem / reg	39.95/47
2000 Hit Games for Dos & Win	22
A Hard Day's Night WIN oem / reg	19/29
A Night on the Town Birthday	12
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Aces of the Deep (sierra) oem / reg	*19/*(29)*
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Aegis Guardian of Fleet oem / reg	22/49
After Hours Power Pack (3 games)	16

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Air Harvic	43
Air Power (3D Combat)	42
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Alian Virus	39.95
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Alien Carnage	*(13)
Alien Legacy	26
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American Civil War	36
Anvil of Dawn	36
Apache	*(37)
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Arctic Baron	*(16)
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Ascendancy	46
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Atlantic Books of Destiny	32
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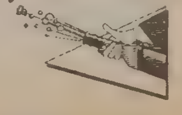

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Sim Isle	37
Sim Tower (by Maxis)	35
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Witchaven	48
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Word Attack 3 (by Davidson)	32
Word Games	16
Word Hunt	12
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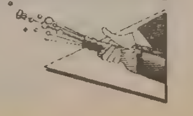

AMIGA

continued from page 238

Petro indicated that twenty thousand A1200s had already been sold in Europe and there were back orders for sixty thousand more!

detection, friction, elasticity, physical property calculations, and more into your LightWave animations. The demo tape they were running totally blew me away. There is literally no reasonable way to do this stuff by hand.

Another very cool product for LightWave is MacroForm from One and Only Media. This is a collection of twenty ARexx macros for use with Modeler. Primarily, this package lets you use smooth spline curves to create LightWave objects. It also includes some helpful productivity utilities.

Andrew Hills showed off Radiosity's new PC LightWave product Scene Machine. This is functionally equivalent to its Amiga cousin, Wavemaker 2.0, but comes on a CD-ROM and packs a much greater variety of logo animation capabilities.

I missed getting a hands-on look at Logo Wizard from International Software Engineering, but based on the handout, it looks to be a very interesting piece of software that also automates the creation of logo animations. Their other product, PathFinder, is a much-needed utility that facilitates the moving of scene, object, and other LightWave files between the PC and Amiga.

Mike Reed showed me his LightWave plug-in WaveFilter. This piece of software will antialias your rendered frames in a single pass! The amount of time this can save is phenomenal. The results I saw were very close to LightWave's low setting, but at a fraction of the render time. It also features the ability to control brightness, contrast, gamma, RGB color, etc., plus it provides alpha channel compositing tools. Right now this is a PC-only product, but an Amiga version will be available soon.

FLYER THINGS

Atomic Brand Software has some very cool products for the Flyer user, including Flite Gear, Radar, Flite VTR, Flite POD (can you tell these are for the Flyer?), and Spot. These products bring many features that are missing in the native Flyer software, like automated tape logging and digitizing, EDL, time-line interface, VTR control, and a whole lot more.

Token Video Productions demonstrated Navigator, a collection of several time-saving ARexx macros for Flyer owners.

DEC ALPHA SYSTEMS

NewTek Systems Group had a large booth. This is a newly formed joint venture between DeskStation Technology (the Raptor folks) and NewTek. It remains to be seen what effect this new partnership will have on other DEC Alpha vendors catering to the LightWave users, like Carrera Computers, Inc. and Bushey Virtual Construction (Teraclipse), who were also at the show.

DRACO

I helped man the NoahJi's/Draco Systems booth to demonstrate Draco. The '060-based AmigaOS machine performed flawlessly throughout the three-day show. Even though we were still using the slower Amiga VLab Motion video capture card, people familiar with non-linear digital video editing were quite impressed, particularly with its multilayer composited video effects. The upcoming Draco VLab Motion and DEC Alpha boards should really turn some heads.

Incidentally, I just got a beta copy of the next release of the editing software. It has a thumbnail preview feature for the Time Line that is near real-time! It's only 256-color now, but will be 24-bit in the final release.

IMAGEFX

Nova Design's Kermit Woodall was at the Expo demonstrating one of my favorite programs, ImageFX. There is now a 2.1a upgrade available that sports some incredibly cool features. ImageFX now allows real-time painting on the Toaster display. Other new features include: blue/green screen compositing, Cybergraphics support, HP Scanjet and Epson scanner support, Flyer clip frame loading, and much more. Version 2.x owners can upgrade for a nominal charge to cover shipping and handling. The patch is also available free from various FTP sites.

AMIGA PORTABLE

Silent Paws was here again this year, but this time it showed real product: Amiga components transplanted into portable cases. The end result looks rather bulky, but compared to lugging around a desktop box and monitor, they certainly provide a more portable solution.

OTHER STUFF

Cheryl Olsen of Desktop Images proudly showed their ever-growing library of Video Toaster and LightWave tutorial tapes. One thing that separates their tapes from others is that they feature well-known artists, so you really learn how the "pros" do it.

I was excited to find out that John Gross will be doing some LightWave tapes in the future. John is the editor of *LightWave Pro* and also an animator as Amblin Imaging (*seaQuest, Star Trek Voyager*, etc.).

Since LightWave is now a multiplatform product, the ability to share data between a PC and Amiga is now a requirement. Link It! from Legendary Design Technologies allows you to do this by connecting parallel or serial ports. The included software works much like a directory utility program. You also have the ability to execute programs on the target machine, although you cannot control them remotely.

Local Amiga retailers T.S. Computers and Anti-Gravity Products were busy making connections and showing off the latest in Amiga software and hardware. Wonder Computers, a large Canadian multi-store

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SOFTWARE

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AMIGA *continued...*

Amiga-only retailer, and B&H Photo-Video, the high-end video equipment vendor, also made the trip to the Expo. Silicon Graphics specialists Digital Imaging Systems showed some SGI machines. German company VillageTronic displayed its line of cool Amiga hardware and software products. The Los Angeles Video Toaster Users Group was there in full force showing off some of its members' talents.

Asimware Innovations was there with its CD-ROM software. Strategic Video displayed their collection of CD-ROM stock video and audio for the Flyer. Burt Wilson (my neighbor at the show) was busy selling copies of his book *Complete Post Production With the Video Toaster*. Incidentally, I see Burt's hard work all the time on my cable channel in Simi Valley.

Computer Display Solutions' booth showcased its line of multiscan monitors that support all Amiga modes. Storagepath displayed its line of RAID storage systems. Desktop Video Systems had its hard drive expansion products. The monthly LightWave video magazine *LightSpeed* was present at the show too. Questar Productions was busy demonstrating the latest release of its terrain modeling software, World Construction Set.

Hopefully I didn't miss anyone. Due to lack of time, I had to glean some of this information from promotional material handed out at the show. Being a demonstrator in one of the booths just didn't allow enough time to touch and feel everything!

Despite the momentum towards non-Amiga LightWave 3D products, it should be noted that—at least for the time being—the number of Amiga LightWave users exceeds the number using the program on other platforms. Developers need to keep that in mind. I kind of get the feeling that developers (including NewTek) don't think they will be viewed as "serious" if they don't develop for the Windows NT platform.

Except for the lack of US marketing direction, the show provided a much-needed shot in the arm for the Amiga community. Attendance was estimated to be in the thousands, so the Amiga continues to have a loyal following. As far as the US Amiga market goes, the sales of the A4000Ts—due to come out in two weeks—will be key. ■

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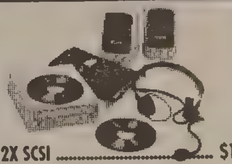

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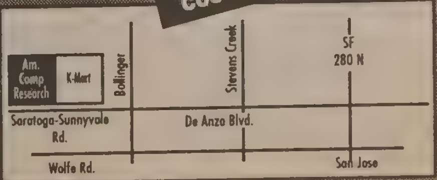

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P90/P100/P120/P133	$880/$940/$990/$1080
Pentium Triton Chipset w/256K, EIDE, & HS I/O:	
P75/P90/P100	$349/$439/$479
P120/P133	$539/$709
P150/P166	**$899/$1099**
256K/512K Pipeline Burst Cache	add $30/$85
Pentium Pro 150	**$2290**
INTEL	
Atlantis w/256K, EIDE, HS I/O, Mach 64 & SB Crystal:	
P75/P90/P100	$549/$623/$669
P120/P133	$723/$897
Endeavor w/256K, EIDE, HS I/O, & SB Vibra16:	
P75/P90/P100	$443/$517/$547
P120/P133	$627/$797
ZAPPA w/256K, EIDE, & HS I/O:	
P75/P90/P100	$357/$447/$487
P120/P133	$547/$717
MICROSTAR	
486DX2-66/80 256K 3VLB (AMD)	$139/$144
486DX4-100 256K 3VLB (Intel)	$179
486DX4-100 256K PCI w IDE & I/O (Intel)	$199
Pentium Triton Chipset w/256K, EIDE, & HS I/O:	
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P100 w/256K, 3 PCI, EIDE & 16550 I/O	$367
P90 w/256k, 3 PCI, EIDE & 16550 I/O	$256
P90 w/256K, 3 VLB	$205
SUPERMICRO	
Pentium Triton Chipset w/256K, EIDE, & HS I/O	
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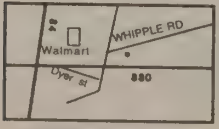

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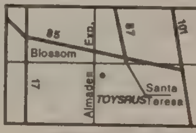

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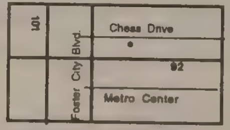

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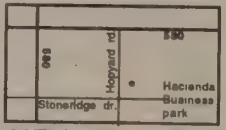

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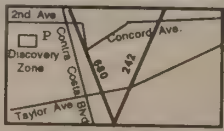

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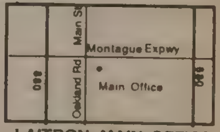

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- 1GB EIDE HD
- Diamond Stealth 64 PCI w/1MB
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- Mitsumi 101-key Keyboard
- Mini Tower Case w/230w P.S.
- Logitech Mouseman
- Microsoft DOS 6.22

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- Mitsumi 101-key Keyboard
- Mini Tower Case w/230w P.S.
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- Deluxe Speaker
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- Mouse

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- 630 MB EIDE HD
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- Microsoft Windows 95

$1019

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- Diamond Stealth VIDEO w/1MB
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- MS Window NT 3.5
- Medium Tower Case
- 250-Watt Power Supply
- Microsoft Mouse

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•TO Pentium 133	$319

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CFP-2107S 2.1GB 8.5ms 256K SCSI-2	$719
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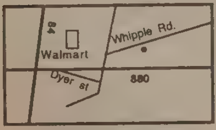

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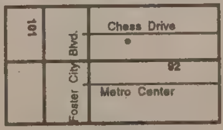

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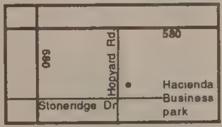

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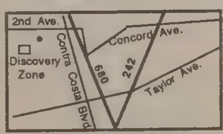

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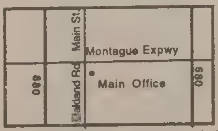

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- Mini Tower Case
- 230-Watt Power supply
- Microsoft Window 95
- 3 Button Mouse

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- PCI Enhanced IDE Controller
- High Speed I/O(2S 1P)
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- 32 Bit PCI Video Card w/1MB
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- Mitsumi 101-key Keyboard
- Microsoft DOS 6.22
- 3-Button Mouse
- Mini Tower Case w/230w P.S.

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- 630 MB IDE HD
- 32 Bit PCI Video Card w/1MB
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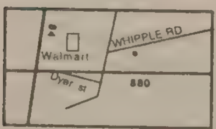
Medium Tower Case w/250W	$69
Full-Size Tower case w/250W	$89
Full-Size Tower case w/300 W	$120
Super Tower Case w/300WPS 2Fan 4Wheel	$165

MONITOR

ACER	
17" 1280X1024 .27DP	$585
15" 1024X768 .28DP	$295
15" 1280x1024 .28DP	$339
ADI	
4GP 15" .28dp 1280x1024	$349
5EP 17" 1280x1024	$624
CTX	
14" 1024x768 .28dp Non-Int	$228
15" 1024x768 .28dp Non-Int	$327
17" 1280x1024 .28DP	$617
HITACHI	
CM 1586 U 15" 1280 x 1024 .28 DP	$389
NS1764 17" 1280 x 1024 .26 DP	$779
IIYAMAM (IDEK)	
MF-8115 15" 1280X1024 .28 DP	*$389*
MF-8617 E 17" 1600X1280 .26 DP Non-Int	*$725*
MF-9017 E 17" 1600X1280 .25 DP Non-Int	*$823*
MF-9021E 21" 1600 x 1280 @ 72 HZ .30 DP	$1715
MF-8221E 21" 1600 x 1280 .25 DP	$1875
IMPRESSION	
3 Plus 14" 1024 X 768 28DP NI full screen	$220
5 15" 1280X1024 .28DP NI	$305
7E 17" 1280X1024 .26 NI	*$536*
MAG	
15F DX 15" 1280X1024 .28	$344
17F DX 17" 1280X1024 .26	$613
17F MXP Flat, 17" 1600X1280 .26	$882
21F MX	$1654
NANAO	
T2-17 17" .25dp 1600x1200NI	$1215
T2-17TS 17" .25dp 1600x1200NI	$967
T2-20 20" .30dp 1600X1200NI	$1878
F2-17 .28dp 1280X1024NI	$834
F2-17EX .28dp 1600X1200NI	$927
F2-21 .30dp 1600X1200NI	$1858
NEC	
XV15	$445
XE15	$537
XP15	$563
XV17	$717
XE17	$949
XP17	$998
XE21 21"	$1695
XP21 21"	$2048

MONITOR

NOKIA	
449E 15" 1280x1024 .28DP NINT.	$423
447L 17" 1024x768 .28 DP NINT.	$687
447X 17" 1600x1280 .25 NINT.	$947
447X 17" 1600x1280 .25 NINT TCO	$1099
445X 21" 1600x1280 .26 TCO	$1994
PANASONIC	
C1791E 17" 1280X1024 .28dp	$679
SHAMROCK	
14" .28dp 1024x768	$220
15" .28 dp Digital Controll 1280x1024	$309
17" .28dp Digital Controll 1280x1024	$579
SONY	
15SF 15" 1280X1024 .25	$469
17SF2 17" 1280X1024 .25	$819
20SE1 20" 1280X1024 .30NI	$1815
TOUCH	
14" SVGA 1024x768 .28NI	$220
VIEWMAGIC	
15" 1280X1024 .28 NI w/Processor	*$285*
17" 1280x1024 .26DP NINT	*$539*
VIEWSONIC	
14ES 1024x768 .28dp NI	$254
15ES 15" 1024X768 .28NI	$348
15G 15" 1280X1024 .28NI	$394
15GS 15" 1280X1024 .28NI	$416
15GA 15" 1280X1024 .28NI	$479
17EA 17" 1280X1024 .28NI	$626
17GS 17" 1280X1024 .28NI	$675
17PS 17" .27 1600X1280NI	$811
20G 20" .28 1600X1280NI	$1144
21PS 21" 1600X1280 .26NI	$1558
OPTIQUEST	
900S 14" .28 1024X768...NI	$235
1000S 14" .28 1024X768....NI	$259
1562A 15" .28 1024X768....NI	$358
2000DS 15" .28 1280X1024..NI	$399
4000DC 17" .27 1280X1024 NI	$643
4000TC 17" TRINTITRON .25 1024X768	$769
4500DC 17" .28 DIGITAL NI 1600X1280	$735
2082DC 20" .28 1600X1280NI	$1229
Monochrome 14" / Monochrome VGA 14"	79/$89
VGA 14" 39dp	$115



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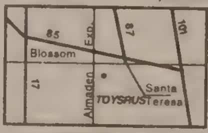

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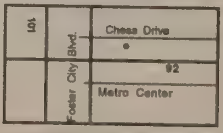

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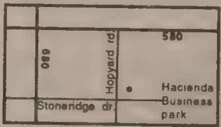

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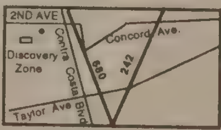

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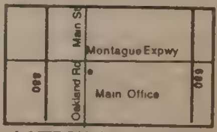

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- •NexGen VLB M.B. & P90 CPU
- •8MB RAM 70ns 72pin
- •1.44 Floppy Drive
- •32 Bit VLB IDE w/2S/1P/1G
- •630MB EIDE HD
- •32 Bit VLB Video Card w/1MB
- •14" 1024x768 .28dp SVGA
- •Mitsumi 101-key Keyboard
- •Mini Tower Case w/230w P.S.
- •Toshiba 4-Speed CD-ROM
- •Sound blaster 16 bit Sound Card
- •Deluxe Speaker
- •3 Buttom Mouse & Pad
- •Microsoft Window 95

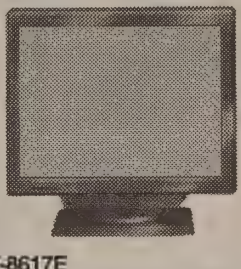
$1249

486DX2-66

- •Micro Star Motherboard
- •AMD 486DX2-66 CPU w/Fan
- •AMI BIOS 256K Cache
- •3 PCI 4ISA
- •4 MB RAM 70ns
- •1.44MB Floppy Drive
- •EIDE & HI Speed IO
- •630MB HD
- •PCI SVGA w/1MB Video Card
- •14" 1024x768 .28dp NI SVGA
- •Mitsumi 101 Keyboard
- •Mini Tower Case
- •230-Watt Power Supply
- •3 Buttom Mouse & Pad
- •MS DOS 6.22

$799

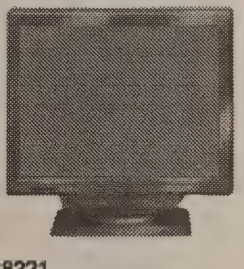
Iiyama(IDEK)



MF-8617E

- •MPR II Low Radiation
- •17" Flat Screen Monitor
- •Energy Conservation System
- •VGA to 1600x1200 Resolution
- •Super High Refresh rates:
  100HZ Maximum at 1024x768
  80HZ Maximum at 1280x1024
  69HZ Maximum at 1600x1200
- •.26 mm Dot Pitch
- •Microprocessor Controlled
- •3-year Warranty

Iiyama(IDEK)



MF-8221

- •MPR II Low Radiation
- •21" Flat Screen Monitor
- •Energy Conservation System
- •VGA to 1600x1200 Resolution
- •Super High Refresh rates:
  110HZ Maximum at 1024x768
  85HZ Maximum at 1280x1024
  72HZ Maximum at 1600x1200
- •.30 mm AG Pitch
- •Microprocessor Controlled
- •3-year Warranty

TAPE BACKUP

COLORADO	
FC-20 / TC-15 Tape Backup Controller	$65/$149
DJ-35C 350MB / DJ-25 700MB	$112/$189
DJ-50 1.4GB Internal	$213
PT-25 2GB Int. / PT-25 2GB Ext.	$895/$995
PT-50 4GB Int. / PT-50E 4GB Ext.	$995/$1095
T-1000 800 MB Internal	$147
JT-35C Trakker 350MB Ext (printer port)	$217
Trakker 680MB Ext. (printer port)	$289
CONNER	
250MB / 420MB Int. w. Tape	$99/$121
4320RT 2.OGB Int.	$699
4350XT 2.OGB Ext.	$799
4324RT 4.OGB Int.	$719
4354RT 4.OGB Ext.	$895
3M DC2120 Tape	$13
EXABYTE	
EXB-2501 1-2 GB SCSI-2 Int	$459
EXB-2501 1-2 GB SCSI-2 Ext	$619
EXB-4200 4mm dAT. 2GB Int/Ext	$779/$949
EXB-8205XL 8mm Dat 3.5-7GB Int	$1249
EXB-8205XL 8mm Dat 3.5-7GB Ext	$1349
EXB-8505XL 8mm Dat 7-14GB Int	$1899
EXB-8505XL 8mm Dat 7-14GB Ext	$2209
HEWLETT PACKARD	
C1534 4mm Dat 2-4 GB SCSI Int	$689
C1536 4mm Dat 4-8 GB SCSI Int	$789
C1533 4mm Dat 8-16GB SCSI Int	$989
HP Mounting Kit To 5.25"	$24
Surestore 2000/4000/6000(w/kit)	$889/$1039/$1219

KEYBOARD

FOCUS	
2000 / 8000 / 9000	$27/$34/$40
KEYTRONIC	
101-Key / 101-Key 2189 win95 / 124	$19/$24/$49
MAXISWITCH	
2189 101-Key / 124-Key	$26$42
MICRO SOFT	
Natural Keyboard	$57
MITSUMI	
Model Z / Model R 101-Key	$13/$20
NORTHGATE	
Omni 101	$57
Omni 102	$59
Ultra Omni	$74

SOFTWARE

CC:Mail Desktop 2.1 for win	$69
CC:Mail Dsektop 10 User Licenese	$359
CC:Mail Group Pack for win w. Organizer	$595
CC:Mail Lan system 10 License	$545
CC:Mail Lan Trade-up 10 License(router)	$375
CC:Mail Mobile E_Mail 2.0 for win	$135
Lotus1-2-3 for Windows 5.0	$279
Lotus1-2-3 for DOS 4.0	$359
Microsoft DOS 6.22 (w/System Purchase)	$45
Microsoft Excel 5.0 for Windows	$285
Microsoft Office 4.2 for Windows	$399
Microsoft Office 4.2 Upgrade	$249
Microsoft Project 3.0 for Windows	$125
Microsoft Word for Windows	$280
Micosoft Windows 3.11 (w/System Purchase)	$55
Microsoft Windows 3.11 Worksgroup(w/System)	$70
PFS Works for Windows	$29
WordPerfect 6.1 (WIN)	$249
Microsoft Windows NT 3.5 (WorkStation)	$225
Microsoft Windows NT 3.5 (Server)	$240
Microsoft Windows NT 3.5 (WorkStation)	$295
Microsoft Windows NT 3.5 (Server)	$240
Microsoft Windows NT 3.51 (WorkStation)	$279
Microsoft Windows NT 3.5 1 (Server)	$610

CD-I MOVIE TITLES

A Fish Called Wanda	$24
Addams Family	$24
Black Rain	$24
Dances with Wolves	$24
Goldfinger	$24
Indecent Proposal	$24
Naked Gun 2 1/2	$24
Naked Gun 33 1/3	$24
Silence of the Lambs	$24
Sliver	$24
Star Trek II-Warath of Khan	$24
Star Trek V-Final Frontier	$24
Star Trek VI-The Undiscovered Country	$24
The Firm	$24
The Hunt for Red October	$24
The Secret of Nimh	$24
Top Gun	$24
Wayne's World	$24
Wayne's World 2	$24

PRINTER

CANON	
BJ-200E / BJC-600E	$269/$509
CITIZEN	
GX220 / Project II Portable	$127/$230
EPSON	
Stylus Color inkjet 720dpi	$425
HP (Hewlett Packard)	
DeskJet 600/600C	$297/$316
DeskJet 660C/850C	$407/$557
LaserJet 5L	$509
LaserJet 4Plus	$1387
LaserJet 4M	$1595
LaserJet 4ML	$1590
LaserJet 4M Plus	$1880
LaserJet 5P	$839
LaserJe 5MP	$1039
LaserJet 4V	$1879
LaserJet 4MV	$2679
LaserJet 5Si	$2859
LaserJet 5SiMx	$3979
HP 1200C/1600C	$830/$1319
OKI DATA	
ML320 9pin	$325
ML380 24pin	$235
ML590 24pin	$575
OL400E Laser	$425
OL410E Laser 4PPM, 600dpi	$530
OL410E/PS Laser Postscript	$795
PANASONIC	
2023 24pin	$179
2123 24pin	$199
Color Kit for 2123	$54
4430 Laser Printer 5ppm	$429
4440 Laser Printer 10ppm	$989

MOUSE & TRACKBALL

LOGITECH	
First Mouse	$23
Trackman Retail	$71
Trackman Oem	$43
Mouseman serial	$21
Mouseman Bus	$43
Mouseman Cordless 2	$89
MICROSOFT	
Serial / Bus (w/System purchase only)	$22/$55
3 Button Mouse	$6

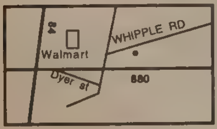
Troubleshooting & Upgrading

Labor charge for:

CPU & Memory Upgrade	FREE
System Diagnostic Checkup	$10
Multimedia Kit Installation	$30
Installation for HDD	$15
Video Card + Driver Setup	$15
Install Motherboard	$20
Install Floppy Drive	$10
Install Reed Magic CD-I Movie	$30
Install New & Power Supply	$30
Install Tape Drive	$10
Install Fax/Modem	$15
Install Software/Setup	$30/hr
System Troubleshooting	$40/hr

Terms & Conditions:

- w One year parts and labor warranty
- w Prices and availability subject to change without notice
- w Shipping, COD, & insurance are extra and not refundable
- w Prices reflect cash discount
- w All returns must have prior authorization
- w All returns must be in original packaging complete with manual, software,...etc.
- w 15% restocking charge
- w Not responsible for typos on this ad



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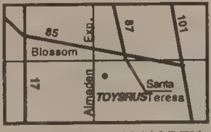

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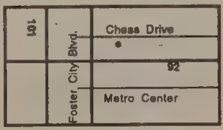

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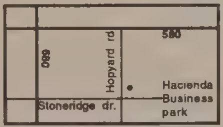

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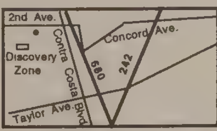

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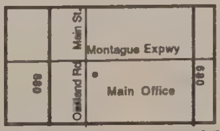

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Resources

Calendar Of Events

Conferences, Shows, Special Events

January

January 5–8 1996 International Winter Consumer Electronics Show. Las Vegas. DSP Communications. Contact: (703)907-7600.

January 6–7 Robert Austin Computer Show. Cow Palace, San Francisco. Robert Austin Corp. Contact: 1-800-346-0100 or *http:// robertaustin.com* .

January 7 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Club. Contact: (510)447-3857 (eve.) or (510)783-2803 (day).

January 7 Renaissance Computer Show. Salinas Comunity Center. Renaissance. Contact: (415)893-8150.

January 9–12 MACWORLD Expo/San Francisco. San Francisco. MHA Event Management. Contact: 1-800-645-EXPO or *http://www.mha.com/macworldexpo* .

January 13 Computer Show And Sale. Scottish Rite Center, Sacramento. MarketPro. Contact: (415)456-6730 ext. 24.

January 13–14 Robert Austin Computer Show. Oakland Convention Center. Robert Austin Corp. Contact: 1-800-346-0100 or *http://robertaustin.com* .

January 14 Computer Show And Sale. Sonoma County Fairgrounds, Santa Rosa. MarketPro. Contact: (415)456-6730 ext. 24.

January 16–18 COMDEX/PacRim Conference And Expo. Vancouver, BC. SOFTBANK COMDEX, Inc. Contact: (617)449-6600.

January 17–20 Medicine Meets Virtual Reality 4: Future Tools For Transforming Medicine Conference. San Diego. UCSD School of Medicine. Contact: Aligned Management Assoc., (619)751-8841 or *70530.1227@compuserve.com* .

January 20–21 Computer Show And Sale. Solano County Fairgrounds, Vallejo. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

JANUARY 16–MAY 24

Computer Classes At Merritt College

The CIS Department at Merritt College offers a range of courses, including programming languages and applications such as Microsoft Office 6.0, Windows, the Internet, network administration using Novell, data communications, UNIX, LotusNotes, PageMaker 5.0, object-oriented programming, C/C++, Pascal, FORTRAN, and Visual Basic. The courses cost $13 per unit for everyone and the last day to register is January 25. For more information, call (510)436-2453.

Computer Repair Program

Youth for Service announces the fourth cycle of the Computer Repair Program. This program is designed for students who are residents of San Francisco, currently in high school or pre-GED, and seventeen years or older. The program is divided into two phases: twelve-week training and twelve-week internship. The students will use their time to do actual computer repair, upgrade computers on-site, and study the theory of computer software and hardware. After completion, they will be placed in internships with nonprofit, cross-cultural agencies. The classes begin January 29, there will be testing every day from 1 to 5 pm until January 19, and orientation is January 26. For more information, call (415)621-5555.

Computer Classes At UC Santa Cruz Extension

UCSC Extension offers a large selection of courses in computer science. Classes offered include UNIX, C, C++, object-oriented, and X-Windows/Motif programming; database systems; information systems management; software engineering; UNIX system administration and engineering; and multimedia. Classes begin in early January. For more information see the UCSC Extension Web site at ***http://www.ucsc.edu/unex***, send email to adminj1@cats.ucsc.edu, or call (408)427-6600.

January 22–23 Multimedia Market West Conference. Beverly Hills. *The Red Herring*, Imperial Bank, KPMG Peat Marwick. Contact: Lori Boyett, (408)865-2277 ext. 210 or *events@herring.com* .

January 22–24 Photoshop Conference. San Francisco. Thunder Lizard Productions. Contact: 1-800-221-3806.

January 22–26 USENIX Technical Conference. San Diego. USENIX Association. Contact: (714)588-8649 or *conference@usenix.org* or *http://www.usenix.org* .

January 27–28 Computer Show And Sale. Cal Expo, Sacramento. MarketPro. Contact: (415)456-6730 ext. 24.

January 29–30 Digital Publishing Symposium. New York. Institute for International Research. Contact: 1-800-999-3123.

January 29–February 1 ComNet '96 Conference And Expo. Washington, DC. MHA Event Management, IDG. Contact: 1-800-545-EXPO or *http://www.mha.com/comnet/* .

January 30–31 Managing The Digital Document Conference And Expo. San Francisco. Association for Information and Image Management International. Contact: 1-800-477-2446 or *aiim@aiim.org* (reference MDD Conference & Exhibition).

January 30–February 1 SoftExpo96 Conference And Exhibition. Santa Clara. *Software Publisher* magazine. Contact: Webcom Communications, 1-800-803-9488.

February

February 4 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Club. Contact: (510)447-3857 (eve.) or (510)783-2803 (day).

February 8–9 The 4th Urban Industrial Forum. Tokyo, Japan. Cities of Arakawa, Itabashi, Kita, and Adachi. Contact: *http://www.iijnet.or.jp/forum* or *yonk95@ari.co.jp* .

February 13–14 The Online Advantage Conference. Bellevue, WA. Washington Software Association. Contact: (206)889-8880 or *http://www.wsa.com/wsa/events/ola96/* .

Robert Austin Computer Shows

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Geneva & Santos - Enter Gate 5 Discount Parking
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February 17 & 18, 1996...Sat & Sun

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March 2 & 3, 1996 ...Sat & Sun

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Calendar Of Events *continued...*

February 14–16 UniForum Show. San Francisco. SOFTBANK COMDEX, Inc. Contact: (617)449-6600.

February 19–21 Field And Sales Force Automation Conference. San Jose. DCI. Contact: (508)470-3880 or *ConfReg@dciexpo.com* or *http://www.DCIexpo.com/*.

February 25–28 IEEE COMPCON 96: Technologies For The Information Superhighway Conference. Santa Clara. Institute for Electronics and Electrical Engineers. Contact: Dave Hunt, *hunt-dn@llnl.gov* or *http://www.cse.ucsc.edu/~lisa/compcon96.html*.

March

March 3 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Club. Contact: (510)447-3857 (eve.) or (510)783-2803 (day).

March 4–6 QuarkXPress Conference. San Francisco. Thunder Lizard Productions. Contact: 1-800-221-3806.

March 5–7 IntermediaWORLD '96 Conference. San Francisco. Reed Exhibition Companies. Contact: (203)840-5634.

March 8–9 California Genealogical Society's Family History Fair. San Francisco. California Genealogical Society. Contact: (415)777-9936.

March 9–12 South By Southwest Multimedia Festival. Austin, TX. SXSW Multimedia. Contact: (512)467-7979 or *72662.2465@compuserve.com* or *http://sxsw.com/sxsw*.

March 18–22 Printed Circuit Board Design Conference. Santa Clara. Miller Freeman, Inc. Contact: Yolanda White-King, (415)905-4994.

March 19–23 Technology And Persons With Disabilities Conference. Los Angeles. CSU Northridge Center on Disabilities. Contact: Dr. Harry J. Murphy, (818)885-2578 or *ltm@csun.edu*.

March 21–23 10th Annual American Bar Association TECHSHOW. Chicago. American Bar Association. Contact: (312)988-5619 or *lpm@attmail.com*.

April

April 2–6 PC-Vietnam International Computing Trade Expo. Hanoi, Vietnam. Expo Corporation. Contact: Alexander Glos, (407)851-7222 or *74204.2576@compuserve.com*.

April 11–12 Oak Ridge Conference: New And Advanced Technology For The Clinical Laboratory. San Jose. American Association for Clinical Chemistry. Contact: 1-800-892-1400.

April 22–23 PAAM96—The First International Conference And Exhibition On The Practical Application Of Intelligent Agents And Multi-Agent Technology. London, UK. Contact: Al Roth, 011 44 1253 358081, *agents@pap.com*, *http://www.demon.co.uk/ar/PAAM96/index.html*.

April 29–May 3 PCI Spring Developers' Conference And Expo. San Jose. Annabooks Conferences. Contact: 1-800-462-1042 or *cgstockton@aol.com*.

Classes, Seminars, Workshops

January

January 1 Complete Online Novell CNE Training. Berkeley. Cyber State University. Contact: (510)253-TREK.

January 1 Excel For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

January 4 MS DOS 6.2 Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

January 5 Intro To PowerPoint For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

January 5 MS Windows 3.1 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

January 7 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091 or *admin@mentornet.com* or *http://www.mentornet.com/*.

January 8 Complete Online Novell CNA Training. Berkeley. Cyber State University. Contact: (510)253-TREK.

January 8 Using The Internet Seminar. Oakland. SkillPath Seminars. Contact: 1-800-873-7545.

January 8–9 Hands-On NetWare 3.x Installation And Configuration Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

January 8–10 Hands-On Installing, Configuring And Supporting Windows 95 Class. San Jose. American Institute. Contact: 1-800-345-8016.

January 8–11 Professional AutoCAD Level I Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

January 8–12 Oracle7: A Comprehensive Hands-On Introduction Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

January 9 Using The Internet Seminar. San Francisco. SkillPath Seminars. Contact: 1-800-873-7545.

January 9 Windows 95 Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

January 10 Doing Business On The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091 or *admin@mentornet.com* or *http://www.mentornet.com/*.

January 10 Lotus For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

January 10–12 Updating From NetWare 3.x To 4.x Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

January 11 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091 or *admin@mentornet.com* or *http://www.mentornet.com/*.

January 11 Beginning MS Word 6.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

January 11 WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

January 12 Intro To Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

January 12 Using The Internet Seminar. San Jose. SkillPath Seminars. Contact: 1-800-873-7545.

January 13 Create Your Own Web Page Class. San Francisco. MentorNet. Contact: (415)664-1091 or *admin@mentornet.com* or *http://www.mentornet.com/*.

January 15 Complete Online Novell CNE Training. Berkeley. Cyber State University. Contact: (510)253-TREK.

January 15–17 Hands-On Building A World Wide Web Site Class. San Jose. American Institute. Contact: 1-800-345-8016.

January 15–18 Professional AutoCAD Level II Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

January 16 Intro To Excel For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

January 16–19 Hands-On NetWare 4.x Administration Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

January 16–19 Intro To Datacomm And Networks Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

January 16–19 Intro To Open Systems Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

January 16–19 Relational Databases: Design,

Calendar Of Events *continued...*

Tools, And Techniques Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

January 16–May 21 Design For General Printing And Desktop Publishing Class. Oakland. Laney College, Graphic Arts Department. Contact: Bill Leal, (510)464-3263.

January 17 Intermediate Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

January 17 Intro To Windows 95 Class. Oakland. Inacom. Contact: (510)444-5700 ext. 173 or ext. 188.

January 17–March 13 Software For The Graphic Arts: Illustrator Class. Oakland. Laney College, Graphic Arts Department. Contact: Bill Leal, (510)464-3263.

January 17–May 22 Design For General Printing And Desktop Publishing Class. Oakland. Laney College, Graphic Arts Department. Contact: Bill Leal, (510)464-3263.

January 18 Beginning MS PowerPoint 4.0 Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

January 18 Create Your Own Web Page Class. San Francisco. MentorNet. Contact: (415)664-1091 or *admin@mentornet.com* or *http://www.mentornet.com/*.

January 18–April 11 Software For The Graphic Arts: Photoshop Class. Oakland. Laney College, Graphic Arts Department. Contact: Bill Leal, (510)464-3263.

January 18–May 23 Pasteup: Traditional And Electronic Class. Oakland. Laney College, Graphic Arts Department. Contact: Bill Leal, (510)464-3263.

January 20–March 2 Software For The Graphic Arts: Illustrator Class. Oakland. Laney College, Graphic Arts Department. Contact: Bill Leal, (510)464-3263.

January 22 Complete Online Novell CNA Training. Berkeley. Cyber State University. Contact: (510)253-TREK.

January 22 Doing Business On The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091 or *admin@mentornet.com* or *http://www.mentornet.com/*.

January 22 Using Windows 95 Seminar. Concord. SkillPath Seminars. Contact: 1-800-873-7545.

January 22–23 Supporting And Troubleshooting Windows 3.1 Seminar. San Francisco. Data-Tech Institute. Contact: (201)478-5400.

January 22–23 Troubleshooting And Maintaining PCs Seminar. Sacramento. Data-Tech Institute. Contact: (201)478-5400.

January 22–24 Distribution Data, Implementation And Management Seminar. San Jose. American Institute. Contact: 1-800-345-8016.

January 22–May 20 Electronic Publishing Class. Oakland. Laney College, Graphic Arts Department. Contact: Bill Leal, (510)464-3263.

January 23 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091 or *admin@mentornet.com* or *http://www.mentornet.com/*.

January 23 Using Computers In Business Workshop. San Francisco. San Francisco Business Computers. Contact: (415)788-5338.

January 23 Using Windows 95 Seminar. Sacramento. SkillPath Seminars. Contact: 1-800-873-7545.

January 23–26 Hands-On Intro To TCP/IP Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

January 23–26 Intro To Client/Server Computing Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

January 23–26 Local Area Networks: Implementation And Configuration Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

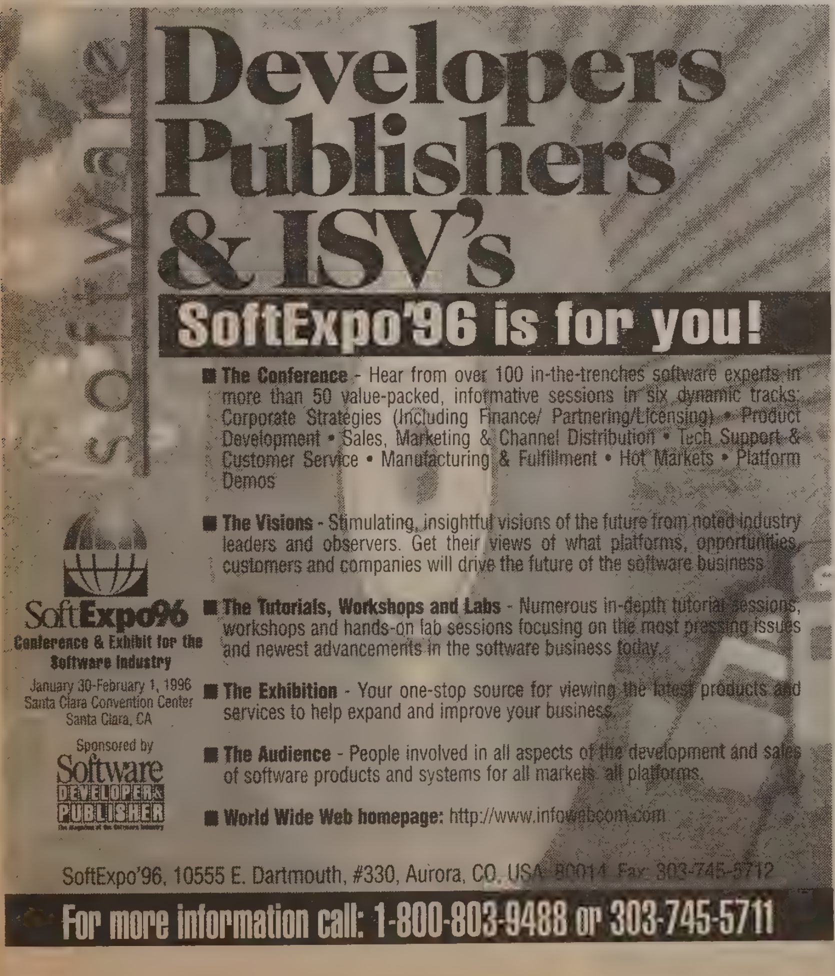
January 23–26 Windows NT Workstation And Server: A Comprehensive Hands-On Workshop. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

January 24 Using Windows 95 Seminar. Palo Alto. SkillPath Seminars. Contact: 1-800-873-7545.

January 24–25 Multimedia With Director 4.0 Workshop. Brisbane. United Digital Artists. Contact: 1-800-22PIXEL.

January 25 Beginning MS Excel 5.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

January 25–27 PCB Design For Surface Mount Technology Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.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Resources

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January 26 Excel 5.0 Database/Charts Class. Oakland. Inacom. Contact: (510)444-5700 ext. 173 or ext. 188.

January 29 Advanced Word For Windows 6.0 Class. Oakland. Inacom. Contact: (510)444-5700 ext. 173 or ext. 188.

January 29 Complete Online Novell CNE Training. Berkeley. Cyber State University. Contact: (510)253-TREK.

January 29–30 NetWare 4.x Design And Implementation Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

January 29–31 Building Applications For Client/Server Networks Seminar. San Jose. American Institute. Contact: 1-800-345-8016.

January 29–February 1 Novell 4.1 System Administrator Class. Oakland. Inacom. Contact: (510)444-5700 ext. 173 or ext. 188.

January 30–February 2 Hands-On Intro To TCP/IP Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

January 30–February 2 Hands-On SNMP: From Workgroup To Enterprise Networks Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

January 31 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091 or *admin@mentornet.com* or *http://www.mentornet.com/*.

January 31–February 2 Networking Technologies Comprehensive Introduction Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February

February 1 Beginning MS Access 2.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 2 Intro To Windows 95 Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 2–3 VRML: 3D Design For The Internet With Mark Pesce. Brisbane. United Digital Artists. Contact: 1-800-22PIXEL.

February 5 How To Understand, Access, And Use The Internet Seminar. Corte Madera. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 5 Intermediate Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 5–6 AutoCAD R12 Update Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

February 5–7 Hands-On NetWare 4.x Advanced Administration Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

February 5–7 Workshop On Network Security, Firewalls, And Internet Services. San Jose. Information Works! Inc. Contact: Cynthia Deno, (408)335-9445.

February 5–8 Professional AutoCAD Level I Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

February 5–9 Oracle7 For Database Administrators Hands-On Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 5–9 Sybase System 10: A Comprehensive Hands-On Introduction Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 6 How To Understand, Access, And Use The Internet Seminar. Redding. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 6 How To Understand, Access, And Use The Internet Seminar. San Francisco. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 6 Managing Multiple Projects, Objectives And Deadlines Seminar. Corte Madera. SkillPath Seminars. Contact: 1-800-873-7545.

February 6 Using The Internet Seminar. Palo Alto. SkillPath Seminars. Contact: 1-800-873-7545.

February 6–9 Distributing Data In Client/Server Systems Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 6–9 Internetworking: Bridges And Routers Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

February 7 How To Understand, Access, And Use The Internet Seminar. San Mateo. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 7 Intro To Lotus Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 7 Intro To WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

February 7 Managing Multiple Projects, Objectives And Deadlines Seminar. Palo Alto. SkillPath Seminars. Contact: 1-800-873-7545.

February 7 Using The Internet Seminar. Concord. SkillPath Seminars. Contact: 1-800-873-7545.

February 7–8 AutoCAD Designer Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

February 7–8 AutoCAD R13 Update Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

February 8 How To Understand, Access, And Use The Internet Seminar. Sacramento. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 8 How To Understand, Access, And Use The Internet Seminar. San Jose. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 8 Managing Multiple Projects, Objectives And Deadlines Seminar. Oakland. SkillPath Seminars Contact: 1-800-873-7545.

February 8 MS DOS 6.2 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

February 8–9 NetWare 4.x Installations And Configuration Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

February 8–May 23 4.4BSD UNIX Kernel Internals: An Intensive Code Walkthrough Class. Berkeley. UC Berkeley Extension. Contact: (510)642-4111.

February 9 How To Understand, Access, And Use The Internet Seminar. Monterey. Fred Pryor Seminars. Contact: 1-800-255-6139.

February 9 Managing Multiple Projects, Objectives & Deadlines Seminar. San Francisco. SkillPath Seminars. Contact: 1-800-873-7545.

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XE17 17" 1024x768 @ 76Hz	$965
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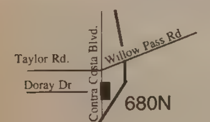

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1280AT 1.2GB EIDE 11ms	$265

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Toshiba 5302B 4X EIDE 600KBps	$129
Toshiba 5301B 4X SCSI-II 600KBps	$199
Toshiba 5701B 6X Speed SCSI-II	$309
Pioneer DR-UA124X 150ms/614 IDE	$145
NEC 6XI 512 6X 145ms/900KBps	$288
Mitsumi FX400B 4X EIDE 600KBps	$120
Sony CDU-77E 4X 190ms/600KBps	$125
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US Robotics Vi 14.4/28.8 Voice Int.	$109/209
US Robotics 28.8/Vi Voice External.	$209/239
US Robotics 14.4/28.8 Internal	$90/194
Supra Fax/Modem 14.4+ PNP Int/Ext	$70/90
Supra Fax/Modem 28.8 PNP Int/Ext.	$129/169
Motorola PCMCIA Cellular Modem	$220
Motorola 28.8 Fax/Modem Int/Ext	$160/174
Zoltrix/Cheyene 28.8 Int Fax/Modem	$115
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Modem Blaster 19.2 DataFaxVoiceMail	$139
Wave Blaster wavetable module	$124

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Flying High BBS. (415)467-2303. 24 hrs., 14,400–28,800. Gay/straight Asian XXX, games, LORD, 18+ verification for adult access. Free. [Exp. #148.]

Forbidden Palace BBS. (415)225-9796. 24 hrs., 14,400. Six nodes. 6GB, awesome adult BBS, great XXX graphics. Low rates. [Exp. #147.]

GameWorld. (415)493-0607. 8-N-1, 24 hrs., 300–14,400. Over 100 games to download, five doors, family oriented. Free! Sysop: Jesse Radin. [Exp. #148.]

Hints BBS. (415)572-8219. Multiline, high-speed modems. Internet, Fido and RIME conf., files. Great rates! [Exp. #148.]

IBBS West. (415)564-9440. 8-N-1, 24 hrs., 300–28,800. PC and compatibles, shareware, utils., adult GIFs, CD-ROM, 13,000 files. Fee. [Exp. #148.]

The Inner Sanctum BBS. (415)871-8563. 24 hrs., 2400–14,400. Multiline. Large file base, doors, chat, Fido. Real names only. No fee. Sysop: Chuck Mayer. [Exp. #148.]

Interact. (415)961-6911, telnet: *diversion.com* . 24 hrs., 1200–14,400. 32 lines. Live chat and multiplayer games. 18/over only. [Exp. #148.]

Intimate Images. (415)598-0898. 1200–28,800. Original adult images and video clips. Free samples. No hourly fees! [Exp. #148.]

Kewl! BBS. (415)592-8520. 24 hrs., 2400–28,800. Games, files, forums, Action teleconference. Major BBS. Free trial. [Exp. #146.]

Kirk's Kosy Korner. (415)327-5475. 24 hrs., 2400. A place for leaving Mac problems and meeting people in Stanford area. Sysop: Charles Kirkley. [Exp. #148.]

The Mother Ship. (415)665-5496. voice help: 665-6920. 8-N-1, 24 hrs., 14,400. New visions for planet Earth, community. Network with us! [Exp. #147.]

Ocean Beach BBS. (415)681-8178. 8-N-1, 23 hrs., 2400–14,400. New. Daily surf report. Quality shareware, CDs, messages, news. Free/fee. [Exp. #148.]

OfficeWeb Business BBS. (415)753-3479. 24 hrs., up to 28,800. Virtual office, database development, CIM, careers, Internet, classifieds. Free. Voice: (415)753-2623. [Exp. #147.]

realitycheckBBS. (415)666-0339. Freedom of Information, cigars, tech, text files, much more. NIR-VANAnet. Sysop: Poindexter Fortran. [Exp. #148.]

San Francisco Online. (415)673-8334. 24 hrs., 14,400. PC/Windows required. Adult straight/gay/les/TG. Files, multimedia more. Free/pay. Sysop: Debbie Hanson. [Exp. #148.]

The ShadowLands. (415)856-3375. 8-N-1, 24 hrs., 2400–28,800. VectorScope & Organized Confusion. FroGgY BuTtS HoLd N0 SoDa! PIZZA PIZZA!!! Free. Sysops: Dasium, Shorty, and That Smelly Guy From Paly. [Exp. #148.]

The Shadow Zone IV. (415)868-2344. 8-N-1, 24 hrs., 1200–14,400. Small but friendly BBS in West Marin. Cooking/recipe forums. Free. Sysop: Katherine Smith. [Exp. #146.]

TamTech BBS. (415)759-5529. 8-N-1, 24 hrs., 2400–14,400. New BBS dedicated to quality shareware files for IBM compatibles. Free. [Exp. #148.]

Thundering Weapon BBS. (415)821-9529. 24 hrs., 28,800. LORD 3.53, IGMs, BRE, SHAMpage, cool BBS. No fee. [Exp. #148.]

Top Gun BBS. (415)221-9366. 8-N-1, 24 hrs., 300–14,400. 1.5GB file base, online games, message nets, IP BRE, everyone welcome. Free!!! [Exp. #148.]

TypeLink BBS. (415)459-6934. 24 hrs., 9600. Mac FirstClass client only; for type designers, typographers, type lovers. Free. [Exp. #148.]

Urbanite BBS. (415)528-6602. 8-N-1, 24 hrs., 57,600. DOOM game connection, chat, Internet, doors, huge download. Free basic. [Exp. #147.]

VidGame BBS. (415)742-6486, 369-7356. 28,800. Nine nodes. Adult files; 1000s utils.; Internet newsgroups, email; Fido; more. Sysop: George Hassmer. [Exp. #146.]

White Knight BBS. (415)856-7903. 8-N-1, 8 am–4 am. 1200–9600. New, IBM/compatible. A few shareware files, community-related conferences. Free. Sysop: Jeff Long. [Exp. #148.]

510

Aaron Construction Company BBS. (510)521-0281. 8-N-1, 24 hrs., 1200–28,800. Construction Q&A, lots of files, Survival and Paul Revere Network conferences. Free. [Exp. #146.]

Albatross! Gardening Club. (510)449-8750. 8-N-1, 24 hrs., 28,800. IBM games, DOS/Windows utilities, shareware; Mac files, MVP Software, more. Sysop: Paul George. [Exp. #148.]

Amiga Addicts Anonymous BBS. (510)680-2850. 24 hrs., 1200–14,400. Amiga files only. Free. Sysop: Stanley Poland. [Exp. #147.]

Arch Vile's Domain BBS. (510)462-7448. 8-N-1, 24 hrs., 28,800. 1000s of DOOM files. Apogee distributor. LORD, Planets. Free/fee. Sysop: Arch-Vile. [Exp. #148.]

Awaiter BBS. (510)939-9992. 24 hrs., 28,800. Internet email/newsgroups, FidoNet, OPUS, paranormal newsgroups, files, games. Free. [Exp. #148.]

Caxius BBS. (510)895-6961. 24 hrs., 28,800. FidoNet/PCC Net support, 120+ conferences, Internet newsgroups, files. Free! Sysop: Ed Correia. [Exp. #148.]

Communications Connection. (510)786-6560. 24 hrs., 1200–28,800. Adult-only BBS, seven CDs online, TABS, email. Free trial. [Exp. #148.]

Cursed Night And Candlelight. (510)689-3785. 14,400. Writing and poetry oriented. A gothic, imaginative world. Escape. [Exp. #148.]

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Dr Jack's Thing. (510)689-4022. 8-N-1, 24 hrs., 28,800. 20,000+ files; Asian, Japanese, other adult GIFs; games; email; much more! [Exp. #148.]

Dragonhead BBS. (510)417-8718. 8-N-1, 24 hrs., 1200–14,400. Thousands of files, LORD, TW2002, Fido, Internet email. Free access first call. [Exp. #148.]

DVPC BBS. (510)943-6238. 8-N-1, 300–14,400. Diablo Valley User Group news, shareware, FidoNet. Free access. [Exp. #146.]

The Ether Room. (510)228-2843. 8-N-1, 24 hrs., 28,800. All your questions answered, all your dreams fulfilled. MatchMaker, NIRVANAnet. Free. [Exp. #148.]

Genesis BBS. (510)704-1472. 24 hrs., 28,800. Small/home business resource board, Internet, 5GB shareware, more. [Exp. #147.]

The GIFt Shop. (510)609-1123. 8-N-1, 24 hrs., 14,400–28,800. Largest selection of GIFs/JPEGs for straight and gay users! [Exp. #148.]

GMV-BBS. (510)294-9052. 8-N-1, 24 hrs., 300–28,800. Multiline. Teleconference, private chat, email, forums, games; Amiga, IBM, Mac files. Subscription. [Exp. #148.]

Gold Diggers BBS. (510)568-7807,,,25,25. 24 hrs., 2400–28,800. RIP SLBBS, files, online games, and messages. $10/year. Sysop: Harry Goldberg. [Exp. #148.]

The Great Abyss BBS. (510)482-5813. 24 hrs., 14,400. Telegard Beta site, GaSpNet, NIRVANAnet, PODnet, PR-Net, FidoNet. No PTC, FPR, validation. Sysop: Key Master. [Exp. #148.]

Greater Light Online. (510)724-9296. 24 hrs., 14,400. Christian. Many message bases, multiline chat, 12,000+ files. Free! Sysops: Michael Bryant, Gary Varney. [Exp. #146.]

The Hi-Lux BBS. (510)233-7859. 8-N-1, 24 hrs., 300–28,800. Don't believe the hype. [Exp. #147.]

K 3's Over The Wire Resumes. (510)370-3719. Free resume listing. Free job hotlines and other job resources. [Exp. #148.]

The Machine. (510)825-2412. 24 hrs., 28,800. Pink Floyd information and updates. Message bases, files. Free. [Exp. #148.]

Maddog! BBS. (510)895-8089, 483-0203. 24 hrs., 2400–28,800. 20 CD-ROMs, online games, FidoNet, Raider and 49er echos, sports, files. Sysop: Troy Earp. [Exp. #148.]

The New-Ark BBS. (510)796-0947. 24 hrs., 14,400. CD-ROM files. About to become multimedia, so join in. Free. [Exp. #148.]

The Phantom Zone BBS. (510)538-9586. 8-N-1, 24 hrs., 300–14,400. Three lines. Files, messages, games, echo mail, FidoNet, Internet email. [Exp. #148.]

Play Time BBS. (510)293-9970. 24 hrs., up to 14,400. Online games, chat, adult files, online purchases. Fee. [Exp. #148.]

The Rat's Lair. (510)644-3280. 8-N-1, 24 hrs., 2400–14,400. OS/2, Windows 95/NT, Disneyana, science fiction, much more. Friendly, free. Call! [Exp. #146.]

Red Dwarf BBS. (510)261-3966. 300–14,400. Featuring Jetnet, LORD 3.52, Planets: TEOS, for mature users. Free. Sysop: Red Dwarf, Lady Seraphina. [Exp. #148.]

Sir James BBS. (510)465-8649. 24 hrs., 300–14,400. Adult graphics (gay/ straight), games, Windows, pagan/occult/magick, more. $5 lifetime. Sysop: Sir James. [Exp. #147.]

The Stage. (510)251-2431. 8-N-1, 24 hrs., 1200–14,400. Pagan-occult BBS. PODSnet, VampNet. Magickal library. Enjoy the play. [Exp. #148.]

VidGame BBS. (510)601-0771. 28,800. Nine nodes. Adult files; 1000s utils.; Internet newsgroups, email; Fido; more. Sysop: George Hassmer. [Exp. #146.]

VisionBytes! (510)355-0968. 28,800. Vision, healthcare topics. ASP, Apogee, Epic, FidoNet. Free Internet email. Free access. [Exp. #148.]

The Warped BBS. (510)939-8344. 24 hrs., 300–28,800. Two lines. Good messages, 2.5GB+, Internet mail, WWIV 4.23. Free! [Exp. #146.]

Windows OnLine. (510)736-8343, telnet: 199.3.100.146, WWW: *http://www.cris.com/wol* . 8-N-1, 24 hrs., 28,800. Largest Windows BBS. Free limited trial. [Exp. #148.]

Wishing Well BBS. (510)745-7901. 1200–14,400. 95+ games, quality files, supports ANSI and RIP, adult files, more. Sysop: MaryLou White. [Exp. #146.]

916

EBS MicroSystems. (916)247-1232. 8-N-1, 24 hrs., 1200–28,800. 15 lines. 25.3GB. BBS Direct access. Sysop: Bruce Knapton. [Exp. #148.]

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USER GROUPS

AMIGA

AWEST—Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415)474-1164, BBS (415)441-5145. [Exp. #148.]

FAUG—First Amiga User's Group. Meetings: 1st Tues., 7:30 pm, HT Electronics, 275 N. Mathilda Ave., Sunnyvale. Q&A, new product demos, public domain software. Call: Mike Fischer, (415)855-9816, BBS (415)341-7566, *mikef@hpl.hp.com* . [Exp. #146.]

RE-Amiga—Redwood Empire Amiga Users Group. Meetings: 2nd Tues., 7:00 pm, Sonoma State University, Darwin Hall, Rm. 121, 1801 East Cotati Ave., Rohnert Park. Call: (707)523-9978 or BBS (707)539-6944. [Exp. #148.]

TOGA—The Other Group Of Amigoids. Meetings: 4th Sat. (except Nov.), 12:30 pm, Milpitas Community Library Meeting Room, 40 N. Milpitas Blvd., Milpitas. An informal group to share ideas, PD software, and information. Call: Lawrence Brown, (408)526-4487 or Randy Abel, (408)356-9405. [Exp. #146.]

APPLE

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Stevenson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: Dean Fearn, (510)881-9160. [Exp. #146.]

ATARI

ABACUS—Atari Bay Area Computer Users Society. Meetings: 1st Sat. 1:00 pm, Potrero Branch Public Library, 2nd floor, 1616 20th St., San Francisco. Supporting all Atari computers and video games systems. Call: Roger Sinasohn, (415)469-7924. [Exp. #148.]

Bay Area Atari Users Group. Meetings: 1st Mon., Agnews Development Center West Campus Auditorium, San Jose. Write: c/o 3691 Eastwood Cir., Santa Clara 95054-2121. Call: Steven Lee, (408)988-3878. [Exp. #146.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp. #151.]

CAD

BMUG Mac CAD SIG. Meetings: last Tues., 6:00 pm, San Francisco Apple Office, One Bush St., 10th Fl. (at Market St.). Presentations, demonstrations. Free. Call: Steve Lukrofka, (415)931-8866 or *LUK@aol.com* . [Exp. #151.]

MAUG—Marin AutoCAD Users Group. Meetings:1st Thurs., 6:30 pm, Autodesk, 111 McInnis Pkwy., Demo Rm., San Rafael (next to Embassy Suites). Call: Priscilla Mills, (415)491-9111. [Exp. #146.]

San Francisco AutoCAD Users Group. Meetings: 1st Mon., 6:00 pm, SFSU Downtown Center, 425 Market St., San Francisco. Door prize every meeting. Call: (415)821-7988. [Exp. #146.]

Sonoma County AutoCAD Users Group. Meetings: 3rd Wed., 6:30 pm, Piner High School, Rm. H-83, 1700 Fulton Rd., Santa Rosa. Call: John Weitzel, (707)525-8147. [Exp. #146.]

South Bay AutoCAD Users Group. Milpitas. Call: (408)282-4448. [Exp. #146.]

COMMODORE

CHUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. Commodore 64 and 128 owners are welcome to attend. Call: (510)531-3734 or 793-7868. [Exp. #151.]

CWEST—Commodore 64/128 Users In SF. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Call: (415)626-9946, BBS (415)441-5145. [Exp. #148.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Contra Costa Water District Anteroom, 1331 Concord Ave., Concord. Call: (510)689-3224. [Exp. #151.]

FUNHUG (Fremont, Union City, Newark, Hayward User Group). Meetings: 3rd Thurs., 7:00 pm, Newark Library Conference Room, Newark. For the Commodore 64/128 computer. Call: (510)793-7868. [Exp. #147.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor—near 1st and Mission, San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp. #151.]

Business Operations SIG Of The Software Forum. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Mike Schmit, (408)244-6826. [Exp. #151.]

Diablo Valley User Group—DVPC. Meetings: 1st Thurs., 7:30 pm, Bank of America, Bldg. B, 2001 Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, Beginner's, Visual Basic, education/entertainment, and more. Call: (510)943-1367. [Exp. #147.]

East Bay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Oakland. All microcomputers, MS-DOS, CP/M. Call: (510)653-2527, 8 am–10 pm. [Exp. #151.]

FUN PC (Fremont, Union City, Newark PC) Users Group. Meetings: 1st Wed., 6:30 pm, CompUSA Newark Training Room. Contact: (510)795-4286, #8. [Exp. #147.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556. [Exp. #147.]

International Software SIG Of The Software Forum. Meetings: 3rd Mon., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Charlie Pfefferkorn, (408)923-7570. [Exp. #151.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm. Guests welcome. Call: Lee Schwab, (707)257-2675 or *lee@community.net* for details and location. [Exp. #151.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, swap at 7:00 pm, Meiklejohn Hall, Room 2002 (inside 1009), CSU Hayward. Share knowledge and PD/shareware, network of BBSes, mentor assistance, SIGs. Call: (510)276-6450 or 538-2449. [Exp. #148.]

Peninsula Computer Club. Meetings: 2nd Thurs., 7:30 pm, Rec Room, 222 Laurel St., San Carlos. DOS and CP/M libraries. Call: (415)593-9981, BBS (415)571-9259. [Exp. #147.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm, 110 Pacific, #153, San Francisco. For people who use computers in their work. Visitors $10. Call: (415)788-5338 or *425-1545@mcimail.com* . [Exp. #151.]

San Francisco PC Users Group. Meetings: 3rd Tues., 7:30 pm, St. Mary's Cathedral, 1111 Gough St., San Francisco. Presentations, Q&A sessions. Call: Loyd Cribbs, (415)751-5219 or 777-1332 for recorded events message. [Exp. #151.]

Silicon Valley Computer Society—SVCS. Meetings: 2nd Wed., 7:30 pm, Hewlett-Packard, Bldg. 48, Oak Room, 19483 Pruneridge Ave., Cupertino. Call: (408)956-0864; BBS, (408)956-0317. [Exp. #146.]

South Bay WordPerfect User Group. Meetings: 4th Tues. (no Dec. meeting), 6:45 pm, Novell, 2880 Lakeside, Suite 300, Santa Clara. WordPerfect for Windows product presentations and education. Free. Call: Scott Maiden, (408)253-4591. [Exp. #147.]

Stanford Palo Alto PC Users Group. Meetings: 1st Wed., 7:30 pm, Media City, 526 Bryant St., Palo Alto. Call: Beverly Altman, (415)329-8252 or Larry Weinberg, (415)969-2292. [Exp. #151.]

INTERNET

BCOOL (Bay Area Computer Org. On-Line) Meetings: 2nd Fri., location varies. Free online classes, tech support, discussions, Web surfing, novices welcome, more. Contact: Lloyd, (415)459-8916, BBS (415)459-6094. [Exp. #151.]

Internet SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, Sun Microsystems, Bldg. 6, 2500 Garcia Way, Mountain View. $10. Call: Walt Schilling, (415)390-9477. [Exp. #151.]

Old Town News & Coffee Internet Users Group. Meetings: every Thurs., 7:00 pm, Old Town News & Coffee, 926 Grant Ave., Novato. Hooked staff on hand to discuss setting up Web pages. Call: (415)897-4419 or *oldtown@hooked.net* or *http://hooked.net/users/oldtownnews* . [Exp. #147.]

Tri-City Internet Group. Meetings: 2nd Tues., 7:00 pm, Fremont main library, 2400 Stevenson Blvd., Fremont. Beginners and advanced users, discussions, Q&A, and demos. Call: Andy, (510)494-5400. [Exp. #147.]

LEGAL

BMUG Law SIG/Law SIG South. Meetings: 2nd Wed., 6:00 pm, Nossaman, Guthner, Knox & Elliot, 50 California St., 34th Fl., San Francisco. Call: Randy, (916)661-2280 or *rbs@aol.com*; or Ted, (415)383-4783 or *tllindberg@aol.com* . [Exp. #151.]

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed. odd-numbered months, noon, SF Bar Assoc. Boardroom, 7th Fl., 685 Market St., San Francisco. Brown bag meetings. Call: (415)421-5650. [Exp. #148.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am, Sunnyvale Community Center Arboretum, 550 E. Remington Ave. (near corner of El Camino and Fair Oaks). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Call: (408)263-0398. [Exp. #151.]

CMUG-Christian Macintosh User Group. Meetings: 1st Thurs., 7:00 pm, San Jose. Learn more about your Mac. Monthly newsletter. Call: Rick Thrasher, (408)945-4773 or *RickT5@aol.com* . [Exp. #146.]

Diablo Valley Macintosh User Group (DVMUG). Meetings: 3rd Tues., 7:00 pm, Bancroft School, 2200 Parish Dr., Walnut Creek. Get together with Mac and Performa users. Many SIG meetings. Call: Tom Bacon, (510)945-4548. [Exp. #147.]

International Macintosh Users Group (IMUG). Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. Call: Roger Sherman, (415)859-5146. [Exp. #151.]

Macs Of Marin. Meetings: last Wed., 7:30 pm, Corte Madera Rec. Center, 498 Tamalpais Dr., Marin. Q&A 7:30, meeting 8:00, members free, nonmembers $5. Call: Richard, (415)485-5596. [Exp. #147.]

OpenDoc/Macintosh SIG Of The Software Forum. Meetings: 3rd Tues., 7:00 pm, Apple Computer, R&D Bldg. 4, 4 Infinite Loop, Cupertino. $10. Call: Tony Meadow, (510)644-9400. [Exp. #151.]

SPC Apple User Group. Meetings: 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Stevenson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: (510)881-9160. [Exp. #146.]

TriValley Macintosh User Group (TMUG). Meetings:

USER GROUPS cont...

3rd Tues., 7:30 pm, Sonoma School, 543 Sonoma Ave., Livermore. Beginners to experts; library, newsletter, SIGs, and a BBS. Call: Jerry, (510)828-0959. [Exp. #146.]

MISCELLANEOUS

BOIG (Bay Area Object Interest Group). Meetings: monthly. An open forum for users of object technology to exchange ideas. Expert speakers. Contact: Ron Lang, (415)967-5044 or *BOIG@aol.com* . [Exp. #151.]

California Genealogical Society SIG. Meetings: 2nd Sat. odd months, CGS Library, 300 Brannan St., 4th Fl., San Francisco. All makes, models, and software welcome. Call: Dave Wilma, (415)681-5131 or *DavidWilma@aol.com* . [Exp. #146.]

Livermore Amateur Radio Klub. Meetings: 3rd Sat., 9:30 am, Livermore City Council Chambers, corner of Pacific and Livermore aves. All visitors are welcome. For those interested in amateur radio. Contact: Chuck Thompson, KE6DRN, (510)606-6074; or Clancy Soucie, N6FQQ, (510)462-8946. [Exp. #148.]

Marketing SIG Of The Software Forum. Meetings: 2nd Mon., 7:00 pm, Center for Software Development, 111W. St. John St., Ste. 200, San Jose. $10. Call: Stan Trumbull, (408)996-1376. [Exp. #151.]

MOBILE

Mobile/Wireless SIG Of The Software Forum. Meetings: 4th Wed., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Dick Roistacher, (415)591-8236. [Exp. #151.]

Stanford Newton User Group. Meetings: 2nd & 4th Tues., 7:00 pm, Printer's Inc. Bookstore Cafe, 310 California Ave., Palo Alto. Call: Flash Sheridan, (415)462-9203 or *FlaSheridn@rahul.net* or *http://www.rahul.net/flasheridn/snug/index.html* . [Exp. #151.]

MULTIMEDIA

Authorware User Forum. Meetings: last Tues. (except Aug./Dec.), 6:30 pm, Scitor Corp., 256 Gibraltar Dr., #C1, Sunnyvale. (510)736-5245. [Exp. #146.]

Multimedia SIG Of The Software Forum. Meetings: 4th Thurs., 7:00 pm, Center for Software Development, 111 W. St. John Street, Suite 200, Downtown San Jose. $10. Call: Dave McCutcheon, (415)506-4238 or Charlie Pfefferkorn, (408)923-7570. [Exp. #151.]

NETWORKING

Client/Server SIG Of The Software Forum. Meetings: 4th Tues., 7:00 pm, Cubberly Community Ctr., Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: Neil Goldstein, (408)559-3636. [Exp. #151.]

NOVELL

Monterey Novell User Group. Meetings: 3rd Thurs., 40 Ragsdale Dr. in Ryan Ranch off Hwy 68 in Monterey. Call: (408)645-2475. [Exp. #146.]

OS/2

OS/2 BAUG Developers SIG. Meetings: 2nd Mon., 7:00 pm, IBM, 1055 Joaquin Rd., Mountain View. Call: (510)945-7565, ext. 100. [Exp. #147.]

OS/2 BAUG Enterprise SIG. Meetings: 3rd Mon., 7:00 pm, IBM, 425 Market St., 22nd floor, San Francisco. Call: (510)945-7565, ext. 100. [Exp. #147.]

OS/2 Bay Area User Group. Meetings: 4th Mon., 7:00 pm, Stanford Linear Accelerator Center Auditorium, 2575 Sand Hill Rd., Menlo Park. For anyone interested in OS/2. Presentations, demonstrations, question and answer session. Call: (510)945-7565 ex. 100. [Exp. #147.]

PARADOX

Silicon Valley Paradox Users Group. Meetings: 3rd Tues., 7:00 pm, Tandem Computers, 10100 Tantau, Cupertino. User group of the Silicon Valley Computer Society. Call: Scott Jackson, (408)738-0424. [Exp. #147.]

PROGRAMMING LANGUAGES

Advanced C/C++ SIG Of The Software Forum. Meetings: 1st Thurs. starting Feb., Cubberly Community Center, Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: Marian Corcoran, (408)973-1662. [Exp. #151.]

Delphi SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, KnowledgePoint, 1129 Industrial Ave., Petaluma. $10. Contact: Bjarne Winkler, (415)461-8086. [Exp. #151.]

Silicon Valley Delphi SIG. Meetings: 1st Thurs., 7:00 pm, Loral Systems, 1260 Crossman, Sunnyvale. Special interest group of the Silicon Valley Computer Society. Call: Scott Jackson, (408)738-0424. [Exp. #151.]

Silicon Valley Forth Interest Group. Meetings: 4th Sat., 10:00 am–5:00 pm, 230 Lincoln Centre Dr., Foster City. Call: Dr. C.H. Ting, (415)638-5669 (w), 571-7639 (h). [Exp. #147.]

Visual Basic SIG Of The Software Forum. Meetings: 2nd Thurs., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Allan Colby, (415)851-4567. [Exp. #148.]

Visual Basic SIG Of The Software Forum, San Francisco. Meetings: 3rd Thurs., 6:30 pm, Hotel ANA, 50 Third St., San Francisco. $10. Call: Dov Gorman, (510)525-9525. [Exp. #151.]

SILICON GRAPHICS

Bay Area Silicon Graphics Users Group—BASGUG. Meetings: 3rd Tues., 7:00 pm, X-Farm, 901 Battery St., Suite 300, corner of Vallejo, San Francisco. Dedicated to providing advanced information and education for SGI systems. Call: Doug Cain, (415)346-6150. [Exp. #147.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Need software/hardware? Call: Fred, (510)530-8335. [Exp. #151.]

UNIX

AT&T UNIX Computer Users Group. Call: Thad Floryan, (415)961-5157. [Exp. #151.]

Bay Area GNU Enthusiasts League (BAGEL). Meetings: will be decided soon—call for info. Dedicated to the proliferation and understanding of GNU public license software. Call: Erik Hetzner, (415)456-2759 or *erik.hetzner@infoway.com* . [Exp. #146.]

Cal Linux Users Group. Meetings: monthly, Soda Hall, UC Berkeley. To discuss Linux and related topics. Free, everyone welcome. Contact: Paul, (510)527-6196 or *http://www-callug.cs.berkeley.edu/* or *board@callug.cs.berkeley.edu* . [Exp. #151.]

Open Systems SIG Of The Software Forum. Meetings: 2nd Tues., 7:00 pm, DEC Auditorium, 130 Lytton Ave., Palo Alto. $10. Call: George Bosworth, (415)851-3304. [Exp. #151.]

VIDEO TOASTER

Silicon Valley Video Toaster Desktop Video Users Group Meetings: last Thurs., 7:00 pm, HT Electronics, 422 Hillview Dr., Milpitas. Special guests, demonstrations, Toaster tutorials, info and tips on Toaster System 4.0, more. Contact: Andrew, (408)244-9692. [Exp. #147.]

VIRTUAL REALITY

Virtual Valley, The Silicon Valley And South Bay Virtual Reality Users' Group. Meetings: every two months (next meeting Sept. 7). Fun, information, networking, job leads, technical demos, speakers. $5. Call: Cleopatra Alfenito, (415)824-2536 or *virtual_valley_admin@gravity.com* . [Exp. #146.]

WINDOWS

Windows SIG Of The Software Forum. Meetings: 1st Wed., 6:30 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $15. Call: Fran Finnegan, (415)288-4400. [Exp. #151.]

ASSOCIATIONS

Association For Systems Management & Data Processing Management Association. Meetings: 1st Wed., 5:30 pm, Mountain View. Networking, dinner, speaker; $20 to $25. Contact: (408)727-3906. [Exp. #148.]

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. $10 members, $15 guests. Contact: (415)979-8450. [Exp. #151.]

Bay Area Association Of Entrepreneurial Software Engineers. Meetings: 1st Tues., 6:30 pm, in Palo Alto. Dinner, lectures, discussion, brainstorming, networking, product development, financing, marketing, distribution. Contact: (510)498-8249 or *http://www.alvin.org/baaese* . [Exp. #151.]

Black Data Processing Associates. Nationwide network of IT professionals with two chapters in the Bay Area. Contact: Willie Mackey, (408)280-7624 or *wjmackey@netcom.com* . [Exp. #147.]

Business Marketing Association. Meetings: 4th Wed., 11:30 am, Marriott Hotel on Great America Pkwy., Santa Clara. A professional organization for business-to-business marketing professionals; CBC certification, topical programs, seminars, job bank. Contact: (408)365-9815. [Exp. #151.]

Center For Software Development. 111 West Saint John, Ste. 200, San Jose. Provides resources for self-service testing, prototyping, and porting on many different platforms. Contact: (408)494-8378. [Exp. #151.]

Computer Software Industry Association. An association working to keep California safe for the software industry. Contact: Kaye Caldwell, (408)479-8743 or *kaye@ix.netcom.com* or *http://www.well.com/user/csia/* . [Exp. #146.]

Database Designers Association. A consortium of those who design custom databases and applications. For membership and meeting info send name and address to *dda@cm-solutions.com*, fax (415)536-1901, voice (415)536-1900. [Exp. #151.]

Independent Computer Consultants Association. Meetings: 2nd Tues., 6:00 pm, The City Club, 155 Sansome St., San Francisco. Open discussion, questions and answers. Contact: (415)399-0305. [Exp. #151.]

International Interactive Communications Society. Meetings: 2nd Tues. Professional association for individuals involved in multimedia, from marketing to graphics and programming. Contact: (415)553-2202, hotline: (415)252-8114. [Exp. #148.]

Management & Technology Association. Explore ways that computers can be used to improve a business's bottom line. Contact: (415)536-1900 or *mt-assoc@cm-solutions.com* . [Exp. #148.]

National Writers Union. Meetings: 1st Wed., location changes. Monthly meeting for professional technical writers. Contact: Andreas Ramos, (415)709-1176 or *andreas@netcom.com* . [Exp. #146.]

Society For Technical Communication, San Francisco Chapter. Meetings: 3rd Wed., 6:00 pm, program at 6:45 pm. For tech writers, editors; job listings, speakers, publications competition, newsletter. Contact: (415)985-7121 or *http://stc.org* for location. [Exp. #151.]

The Software Forum. Meetings: 3rd Wed., 6:30 pm. Industry association dedicated to software developers and entrepreneurs, offering information and education on all facets of the software industry. Contact: (415)854-7219 for reservations/info. [Exp. #151.]

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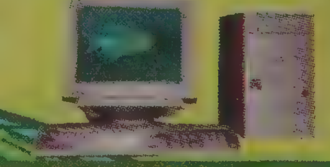

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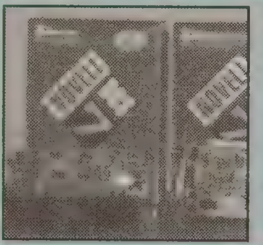

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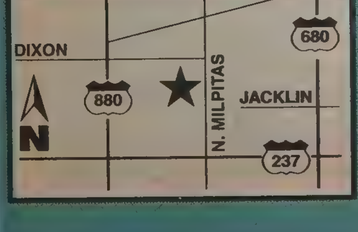

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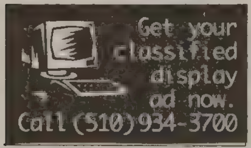
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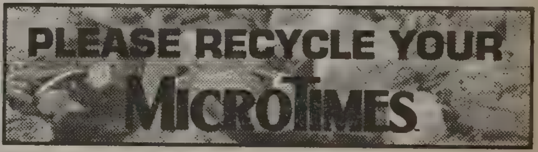
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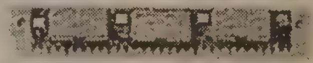

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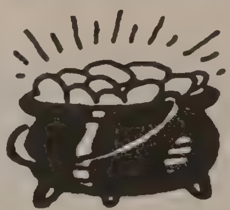

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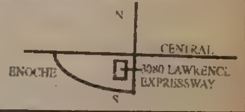

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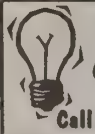

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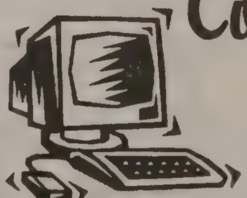

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SUN'S HIGH-OCTANE JAVA

continued from page 242

right to the source. The book includes how the structures of Java, HotJava, and applets are put together and how they connect.

For the core of the source of VRML, go directly to Mark Pesce's *VRML: Browsing & Building Cyberspace* (New Riders Publishing, 424 pp+CD, $40). Pesce is one of the prime founders and innovators of VRML. Pesce provides chapter guidelines for "The Hacker's Path" and "The Designer's Path," and both persuasions will find this tome a cornerstone for reading the map of cyberspace and staking out claims.

> As a Web user, you don't stir Java directly so much as you activate it within a Java-enabled Web browser like Netscape 2.0.

Parlez-vous HTML? Stephen Wilson's *World Wide Web Design Guide: Learn to Design Professional Web Pages!* (Hayden Books, 382 pp., $40) provides a wide-ranging and solid guide to making your Web pages look and act better than all the ones you complain about to your friends. That includes communicating online and on-screen; Internet services; hypermedia; HTML and linking fundamentals; working with image, sound, and video on the Web (!!); advanced interactive events and experimentation; and future trends...including Java.

Mary Jo Fahey's *Web Publisher's Design Guide for Macintosh* (Coriolis Group Books, 406 pp+CD, $34.99) is structured and reads like some of the good Photoshop books; both the novice and the experienced user can really go to town in getting right to creative, effective design. She provides the sources and uses of online tools that permit you to kick page. You are never more than inches away from clear and understandable graphic examples and the procedures to realize them. ■

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P5-75C PCI (INTEL ATLANTIS M/B)**	328	488	N/A	728	838	1,038	958	1,088	1,158	1,288	1,578
P5-133C PCI (INTEL ENDEAVOR M/B)**	214	718	N/A	958	1,068	1,268	1,188	1,318	1,388	1,518	1,808
P5-120C PCI (INTEL ENDEAVOR M/B)**	214	548	N/A	788	898	1,098	1,018	1,148	1,218	1,348	1,638
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P5-120/256C PCI (INTEL ZAPPA or TRITON M/B)	198	538	N/A	778	888	1,088	1,008	1,138	1,208	1,338	1,628
P5-100/256C PCI (INTEL ZAPPA or TRITON M/B)	198	488	N/A	728	838	1,038	958	1,088	1,158	1,288	1,578
P5-90/256C PCI (INTEL ZAPPA or TRITON M/B)	198	438	N/A	678	788	988	908	1,038	1,108	1,238	1,528
P5-75/256C PCI (INTEL ZAPPA or TRITON M/B)	198	358	N/A	598	708	908	828	958	1,028	1,158	1,448
P5-133/256C PCI**	138	638	N/A	878	988	1,188	1,108	1,238	1,308	1,438	1,728
P5-120/256C PCI**	138	468	N/A	708	818	1,018	938	1,068	1,138	1,268	1,558
P5-100/256C PCI**	138	418	N/A	658	768	968	888	1,018	1,088	1,218	1,508
P5-90/256C PCI**	138	368	N/A	608	718	918	838	968	1,038	1,168	1,458
P5-75/256C PCI**	138	298	N/A	538	648	848	768	898	968	1,098	1,388
P5-60/256C PCI-VLB	100	208	N/A	448	558	758	678	808	878	1,008	1,298
P5-100/256C PCI (NEXGEN)	N/A	358	N/A	598	708	908	828	958	1,028	1,158	1,448
P5-90/256C PCI (NEXGEN)	N/A	248	N/A	488	598	798	718	848	918	1,048	1,338
P5-90/256C VLB (NEXGEN)	N/A	198	N/A	438	548	748	668	798	868	998	1,288
486DX4-100/256C VLB-PCI (ASUS M/B)	138	218	378	458	568	768	688	818	888	1,018	1,308
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P5-90/256K PCI (Nexgen)	928
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P5-60/256K VLB-PCI	898
P5-75/256K PCI	978
P5-90/256K PCI	1,058
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486DX4-100/256K VLB	918
486DX4-120/256K VLB	958
P5-90/256K PCI (Nexgen)	1,048
P5-100/256K PCI (Nexgen)	1,158
P5-60/256K VLB-PCI	1,008
P5-75/256K PCI	1,088
P5-90/256K PCI	1,178
P5-100/256K PCI	1,218
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P5-75/256K PCI (Intel Zappa)	1,338
P5-90/256K PCI (Intel Zappa)	1,428
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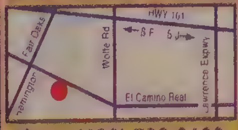

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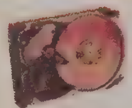

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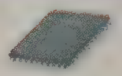

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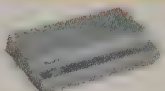

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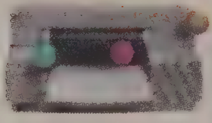

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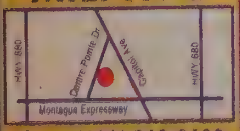

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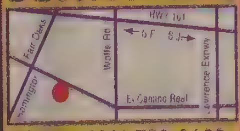

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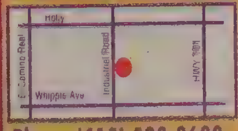

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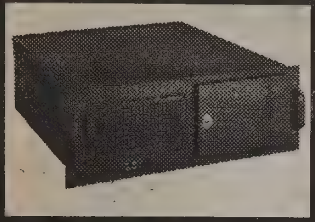

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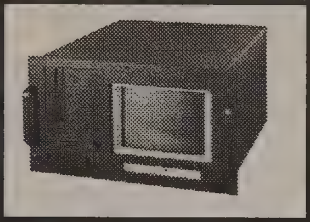

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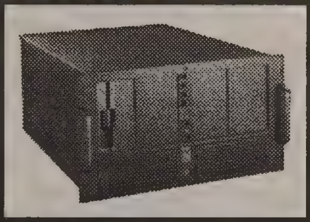

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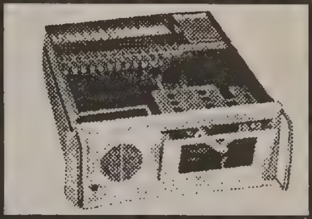

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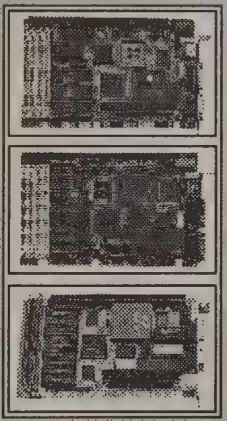

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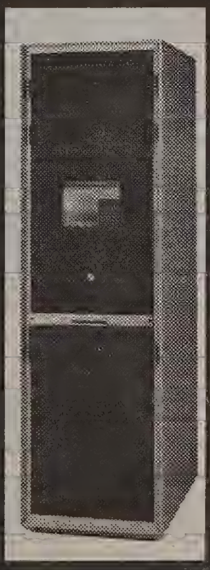

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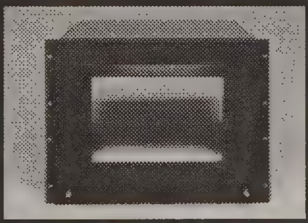

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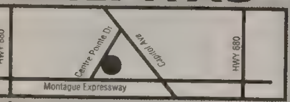

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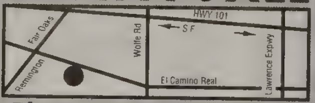

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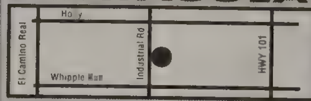

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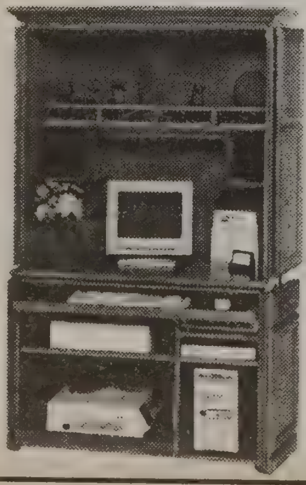

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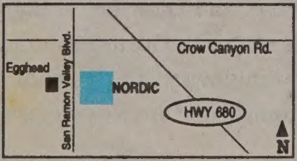

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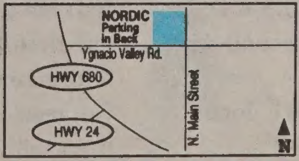

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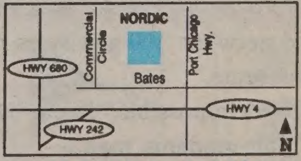

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A True Story Of A Changed Man

Or

Love Is Everywhere, Man!

The market was getting screwy and it was time to get a clue about the future, so I figured I'd go to visit my old pal, Swami Sri Swish Nanda in his transcendental tree house and ashram in Pacific Heights.

The Swami, as usual, knew I was coming and had his newest V-beam projection crystal ball set up and ready for me.

"John, it's been over a year. You never call. You never write. Then when you want to see into the future, you come. Am I depressing to hang around?" The Swami snapped his fingers and a slew of tall, leggy maidens appeared from every direction and surrounded him as if posing for a James Bond poster or something. He snapped his fingers and they all ran off, seeming like ballerinas as they jumped and spun, gliding into various rooms. The Swami smiled and handed me the headphones and sat me down in a large pillow.

One of the handmaidens dimmed the lights and the weird projector flashed to life.

A booming voice came over the loudspeakers and into the headphones. "You have questions about the future. The Internet. Bill Gates. Netscape. Microsoft. The stock market. I have answers to everything. Let us begin."

The Swami and I both had microphones coming out of the headsets so we could speak to each other during the show. His voice came over the headsets. "Check this out, Dvorak. The system is now hooked into the Internet via Guru-net. It's great. Best of all it's a high-speed network. 100 gigabytes per second data transfer rate."

"That's impossible," I said. "How is it done?"

"Cable modems, man!"

Just as he spoke the projector flickered and sputtered. A different, female voice came over the system.. "Please Stand by...waiting to contact site...Please Stand by...waiting to contact site..."

After a few minutes of waiting, during which the Swami went into a meditative trance, the ball came to life again. Then the female voice again, "Error 404—invalid URL...attempting to recontact site...hit escape to abort...attempting to recontact site...hit escape to abort."

I nudged the Swami. "Hey, what's going on here?" He snapped out of his trance.

"Oh, are we having network problems again? Nuts. Just wait a minute, it will move to the backup network. I hate using that though, it's not as fast as this one." He snapped his fingers and one of the handmaidens ran out and pushed a button on the system. Again the ball lit up and an image started to appear.

The man's voice again was heard. "Welcome to Guru-net. The system is experiencing difficulties connecting. Please wait..."

An hourglass appeared on the screen and was turning itself over again and again. The voice repeated the message. I was getting drowsy watching it.

I again nudged the Swami, who had dozed off. "Hey, now what??"

"Huh? 404 again?"

"No, some connection message."

"Ah...yes. It should be OK in a few minutes. Look! You have a partial image of something."

"Yeah...so? How come you're bothering with this nonsense? You used to get your visions off of the collective unconscious of the superorganic—the blue rays! Why go to the Internet? This sucks."

The Swami looked askance. "What? It sucks?!? How can you say that? This is a 100GB network. So it has a few bugs. You know better than anyone that it's not unusual. Guru-net, man! The information superhighway. It's tres cool. Don't you read *Wired* magazine? Aren't you jazzed on this at all?"

"What got into you? I was coming to get a reading. This is getting us nowhere." I pulled off the headphones as the error message repeated itself. "And I can't believe you read *Wired*! You're the Swami!"

"That voice you're hearing, man..it's full digital CD-quality stereo. I've got bandwidth up the wazoo!"

I was now worrying about the guy. "It's an error message! Who cares about the quality of the sound?"

The Swami shook his head as he looked at me. The error message continued to repeat in the background over and over and over. "You don't get it, do you, Dvorak? This is better than the old way. It's fast and it's digital. It's the wave of the future. Who cares if it's got a few bugs? It's probably not the bugs anyway. The system is clogged with users. It's hip, man! It's cool!"

I looked in the Swami's stoned-looking eyes. The message suddenly changed into some sort of feedback squeal that began cycling and sounding like a car alarm. The Swami held his hands to his ears. "No, no! Not again, anything but that!!" He fell down, passed out in a clump. As the handmaidens ran up to him, I noticed a little tattoo under the armpit of one of the women. They all seemed to have it as I looked around. It read "Property of Netscape"!

One of the women held some headphones up to me. "You have to plug back in...you never received your messages," she said. "You must listen!"

A group of women jumped me and forced the headsets on me. It was playing a strange song. It was nice. Yeah, real nice.

I can't recall what it was about. I found myself back home—somehow. It was a nice system the Swami had, yeah...real nice. It was great, in fact. Lots of bandwidth. Netscape is a very cool company. I have to remember to get my subscription to *Wired* too. The Internet is neat. Better than what went before, yeah...real neat. Well, I must go now...to receive my error messages. They are really cool at high speeds. Have a nice day. Byeeeee! <hugz> <g> ■

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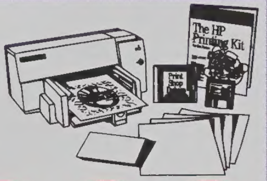

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#2081702

$399

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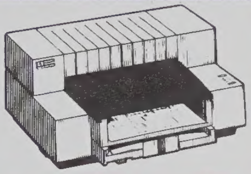
DeskWriter C Color InkJet Printer



LASER QUALITY FOR THE MACINTOSH®

- Color and Black and White outputs at Laser-Quality Resolution • 300 dpi
- 64K Printer Spool • 100 Sheet Paper Feeder
- Whisper Quiet Operation
- 3 Year Warranty

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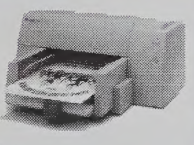
DeskJet 600C Color Printer



New Inks for sharper, blacker blacks.
Up to 4 Pages/Minute in EconFast Mode
600 dpi Plus Resolutioon Enhancement for Crisp Clear Printing
Color Printing Kit included
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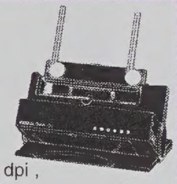
DeskJet 340 Portable Printer



- Up to 3 Pages per minute
- Crisper, blacker blacks with 600 x 300 dpi ,
- Optional Color kit for vivid Color Printing (Sold Separately)
- 30 Page Sheet Feed Included
- Optional MAK or Infrared adapters (Sold Separately)

#2081713

$269*

* After $30 mail-in rebate. In-store price $299 plus tax.

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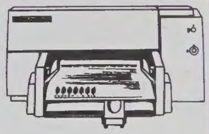
DeskWriter 600 for Macintosh®



- New Inks for sharper, blacker blacks
- Up to 4 Pager per minute in EconoFast Mode
- 600 dpi Plus Resolution Enhancement Technology for crisp clear printing

#2063410

$299

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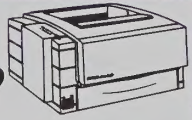
LaserJet 5P



- True 600 x 600 dpi laser printing • Lots of font choices
- Two paper sources, 3" x 5" to legal sizes, wrinkle-free labels, envelopes and card stock
- 6 pages per minute and a 20MHz processor
- Reliable, expandable, shareable, versatile, value-packed printing

C3115A
#2004088

$848

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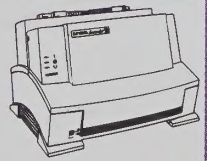
LASERJET 5L



HP's Most Efficient Personal Laser Printer

- Laser printer for the PC
- 600 x 600 dpi and 26 scalable typefaces
- Prints 4 pages per minute
- 1MB memory, doubles with MEt
- 100-sheet paper tray easily prints postcards to legal size
- HP PrintSmart for simple, complete Windows® printing
- #2081724

$479

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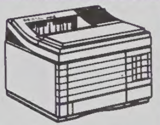
LaserJet 4M Plus for Macintosh®



The BEST print quality in the industry

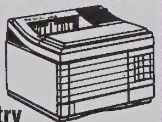
- 12 pages per minute printing for Macintosh and mixed MAC/PC environments
- True 600 dpi output
- Adobe™ PostScript™ Level 2 and enhanced HP PCL 5 printer languages.
- 80 scalable typefaces - 35 Adobe Type1, 35 Intellifont, 10 TrueTypeTM
- 6MB standard, expandable up to 38MB
- 250 sheet paper tray and 10-envelope multi-purpose tray

#1914571

$1879

HEWLETT PACKARD
Authorized Dealer

LaserJet 4 Plus



The BEST print quality in the industry

- 12 pages per minute engine and 25MHz RISC processor for faster printing
- True 600 dpi print quality for clear, crisp text and graphics
- Resolution Enhancement Technology and microfine toner for superior output quality
- Easy to set up and use
- Duplex option (sold separately)

#1908697

$1365

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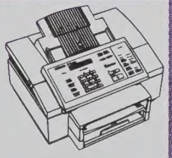
OfficeJet LX



- Fully-integrated printer, fax and copier turns your your desktop into an office
- High-quality plain-paper output
- 24-page memory handles incoming faxes while printing
- Automatic switching among functions
- One-year warranty with overnight HP Express Exchange
- PC faxing directly from Windows
- Convenience scanning
- Ease of managing the HP OfficeJet LX fromyour PC

#2022026

$598*

* After $100 mail-in rebate. In-store price $698 plus tax.

HEWLETT PACKARD
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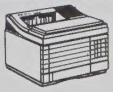
LaserJet 4V



- HP's fastest desktop printer
- Crisp 600 x 600 dpi print quality • 16-ppm engine speed
- 33Mhz RISCprocessor with I/O buffering for unparalled performance.
- Handles a wide range of paper sizes including 11 x 17.

#1952320

$1889

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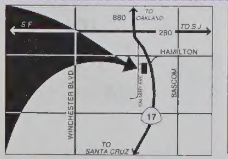

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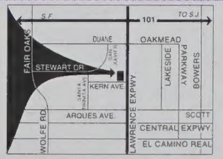

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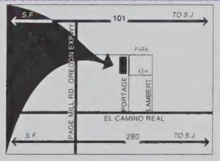

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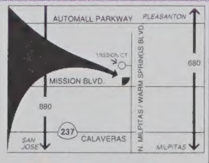

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